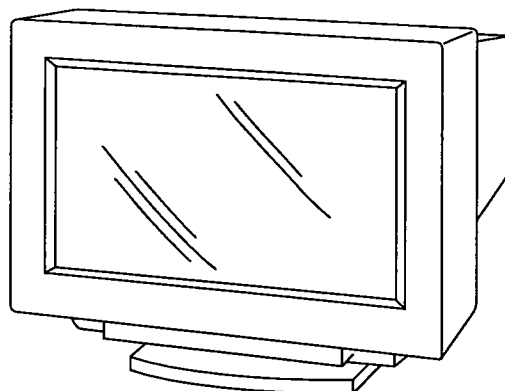


SERVICE MANUAL**Multiscan®**

US Model
Canadian Model
AEP Model
 Chassis No. SCC-K49A-A

W1 CHASSIS**SPECIFICATIONS**

Picture tube	0.25 – 0.28 mm aperture grille pitch 24 inches measured diagonally 90-degree deflection
Viewable image size	Approx. 482 × 304 mm (w/h) (19 × 12 inches) 22.5" viewing image
Resolution	Horizontal: Max. 1920 dots Vertical: Max. 1200 lines
Standard image area	Approx. 473 × 296 mm (w/h) (18 ⁵ / ₈ × 11 ³ / ₄ inches)
Deflection frequency	Horizontal: 30 to 96 kHz Vertical: 50 to 160 Hz
Input	HD15 (1), 5 BNC (1) R/G/B: 75 Ω, 0.714 Vp-p, positive HD/VD or Composite sync Sync-on-green: 0.286 Vp-p, negative
AC input voltage/current	100 to 120 V, 50/60 Hz, 2.2 A 200 to 240 V, 50 – 60 Hz, 1.4 A
Power consumption	Max. 200 W
Dimensions	580 × 500 × 548 mm (w/h/d) (22 ⁷ / ₈ × 19 ³ / ₄ × 21 ⁵ / ₈ inches)
Mass	Approx. 41 kg (90 lb 6 oz)

Design and specifications are subject to change without notice.

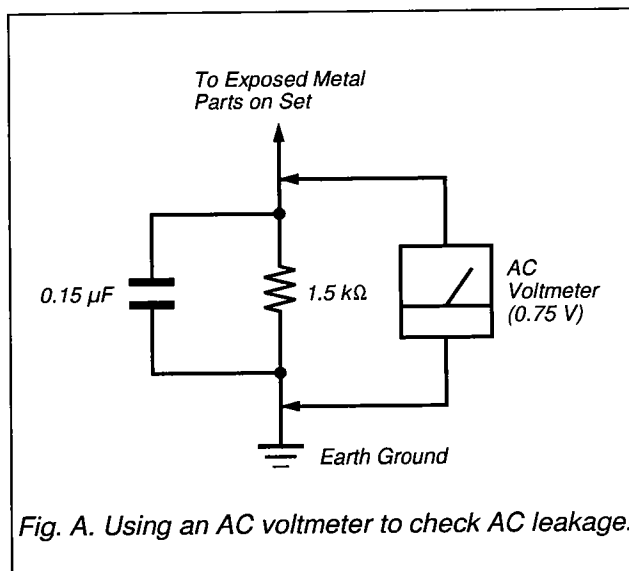


TRINITRON® COLOR GRAPHIC DISPLAY
SONY®

SAFETY CHECK-OUT (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE Δ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

POWER SAVING FUNCTION

This monitor is capable of three states of reduced power consumption. By sensing the absence of video signals and one or both sync signals coming from the host computer, it will reduce power consumption as follows.

Power consumption state	Power consumption	Recovery time	power saving indicator	power indicator
1 Normal operation	≤ 200 W	—	Off	Green on
2 Standby (1st state)	≤ 140 W	Approx. 3 sec.	Orange on	Green on
3 Suspend (2nd state)	≤ 15 W	Approx. 3 sec.	Orange on	Green on
4 Active-off (3rd state)	≤ 8 W	Approx. 10 sec.	Orange on	Off
5 Power-off	0 W	—	Off	Off

DIAGNOSIS

Failure	Power Saving LED	Power LED
HV, +B failure	Off	Blink Amber
Horizontal/Vertical deflection failure, thermal protector	Blink Amber	Off
ABL protector	Blink Amber	Blink Amber
Aging/Self Test	Off	Amber (0.5 sec) → Off (0.5 sec) → Green (0.5 sec) → Off (0.5 sec) →

Aging Mode: Video aging

Self Test: OSD color-bar indication

Self Test: OSD All White indication

During Power Save, press "OPTION" Key for longer than 2 seconds.

During Power Save, press "CONTRAST+" Key for longer than 2 seconds.

During Power Save, press "COLOR" key for longer than 2 seconds.

TIMING SPECIFICATION

PRIMARY MODE MODE AT PRODUCTION	MODE1	MODE2	MODE3	MODE4	MODE5	MODE6	PRIMARY MODE7	MODE8	MODE9
RESOLUTION	640 X 480	1280 X 1024	1600 X 1200	1920 X 1080	1920 X 1080	1600 X 1024	1920 X 1200	720 X 400	1920 X 1035
CLOCK	25.175 MHz	135.000 MHz	202.500 MHz	159.840 MHz	216.023 MHz	170.447 MHz	245.480 MHz	28.322 MHz	74.250 MHz
— HORIZONTAL —									
H-FREQ	31.469 kHz	79.976 kHz	93.750 kHz	67.500 kHz	84.384 kHz	81.320 kHz	95.000 kHz	31.469 kHz	33.750 kHz
	μsec	μsec	μsec	μsec	μsec	μsec	μsec	μsec	μsec
H. TOTAL	31.778	12.504	10.667	14.815	11.851	12.297	10.526	31.777	29.630
H. BLK	6.356	3.022	2.765	2.803	2.963	2.910	2.705	6.355	3.771
H. FP	0.636	0.119	0.316	0.200	0.222	0.188	0.261	0.636	0.593
H. SYNC	3.813	1.067	0.948	0.901	1.000	0.939	1.043	3.813	1.185
H. BP	1.907	1.837	1.501	1.702	1.741	1.784	1.401	1.907	1.993
H. ACTIV	25.422	9.481	7.901	12.012	8.888	9.387	7.821	25.422	25.859
— VERTICAL —									
V. FREQ(HZ)	59.940 Hz	75.025 Hz	75.000 Hz	60.000 Hz	72.000 Hz	76.000 Hz	76.000 Hz	70.087 Hz	60.000 Hz
	lines	lines	lines	lines	lines	lines	lines	lines	lines
V. TOTAL	525	1066	1250	1125	1172	1070	1250	449	562.5
V. BLK	45	42	50	45	92	46	50	49	45
V. FP	10	1	1	3	3	3	3	12	5
V. SYNC	2	3	3	3	3	3	3	2	5
V. BP	33	38	46	39	86	40	44	35	35
V. ACTIV	480	1024	1200	1080	1080	1024	1200	400	517.5
— SYNC —									
INT(G)	NO	NO	NO	NO	NO	NO	NO	NO	NO
EXT(H/V)/POLARITY	YES N/N	YES P/P	YES P/P	YES N/N	YES N/N	YES N/N	YES N/N	YES N/P	YES N/N
EXT(CS)/POLARITY	NO	NO	NO	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	INT

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SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Connections

Before using this monitor, check that the following items are included in your package:

- Monitor (1)
- Video signal cable (1)
- Power cord (1)
- Macintosh[®] adapter (1)
- HD15 (Female) - HD15 (Male without the No. 9 pin) adapter (1)
- Warranty card (1)
- This operating instructions (1)

This monitor will sync with any IBM or compatible system equipped with VGA²⁾ or greater graphics capability. Although this monitor will sync with other platforms, a cable adapter is required. Please consult your dealer for advice on which adapter is suitable for your needs.

Step 1: Connect the monitor to the computer.

With the computer switched off, connect the video signal cable to the monitor (HD15/5 BNC's) and connect the other end to the video output.

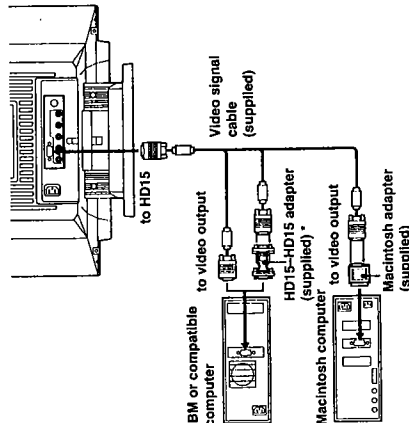
To connect the HD15 connector, use the supplied video signal cable.

To connect the 5 BNC's connector, use the SMF-400 video signal cable (not supplied).

Note

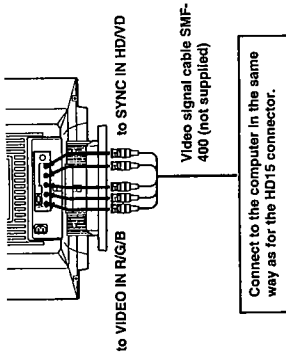
Do not touch the pins of the video signal cable.

Connecting to the HD15 connector



- The HD15-HD15 adapter may be needed for some models.

Connecting to the 5 BNC's connector



For the customers using IBM PC or IBM compatible system which is not compatible with DDC2AB and DDC2B+

This monitor uses a No. 9 pin in the video signal connector for DDC2AB and DDC2B+ compatibility. Some PC systems which are not compatible with either DDC2AB or DDC2B+ may not accept the No. 9 pin. If you are not sure whether your PC system accepts the No. 9 pin or not, use the HD15 (Female) - HD15 (Male without the No. 9 pin) adapter (supplied). Make sure that the male side (without the No. 9 pin) is connected to the computer.

For the customers using the Macintosh computer

Supplied Macintosh adapter is compatible with Macintosh LC, Performa, Quadra and Power Macintosh series computers. Macintosh II series and some older version of PowerBook models may need an adapter with micro switches.

Step 2: Connect the power cord.

With the monitor switched off, connect the power cord to the monitor and the other end to the power outlet.



The installation of your monitor is complete. Enjoy your monitor.

Notice

To comply with the limits of FCC class B and IC Class B for digital device, please attach supplied video signal cable for HD15 input or SMF-400 (not supplied) for BNC input. Furthermore, each cable must have ferrite cores in it.

- 1) Macintosh and Power Macintosh are trademarks of Apple Computer Inc.
- 2) VGA is a trademark of IBM Corporation.

User modes

When using a video mode that is not one of the preset modes, some fine tuning may be required to optimize the display to your preference. Simply adjust the monitor according to the adjustments instructions on pages 9 to 15. The adjustments will be stored automatically and recalled whenever that mode is used.

A total of 16 user-defined modes can be stored in memory. If a 17th mode is entered, it will replace the first.

For less common modes, and modes that may evolve in the future, the Digital Multiscan Technology of this monitor will perform all of the complex adjustments necessary to ensure a high quality picture for any timing in its frequency range. However, due to the wide variety of video boards on the market, it may be necessary for the user to fine tune the vertical/horizontal size and centering.

Recommended horizontal timing conditions

Horizontal sync width should be more than 0.8 μ sec. Horizontal blanking width should be more than 2.7 μ sec.

Note for Windows[®] users

Check your video board manual or the utility program which comes with your graphic board and select the highest available refresh rate to maximize monitor performance.

- 2) Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Selecting the Input Signal

This monitor has two signal input connectors and can connect two computers. When the power of both computers is on, select the signal you want to input as follows.

- 1 Turn on power of the monitor and the computer.
- 2 Select the input signal.



To input the signal from the computer connected to the 5 BNC's connector
Set the INPUT switch to BNC.

To input the signal from the computer connected to the HD15 connector
Set the INPUT switch to HD15.

If only one computer is connected or turned on
Set the INPUT switch to AUTO (center position). The input signal is automatically selected.

- 3 If necessary, adjust the user controls according to your preference on pages 9 to 15.

When you set the INPUT switch to "AUTO" and connect computers to both connectors

If you turn on or restart the computer you want to input a signal from, or the computer is in power saving mode, the monitor may automatically select another computer's signal. This is because no signal is input to the monitor at that moment. If this happens, select the signal using the INPUT switch.

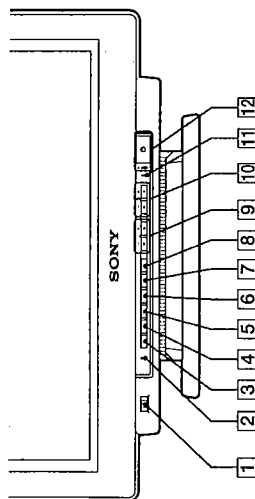
For the customers using the Windows95

Even if you select SONY for the maker on the device select screen, the model name (CDM-W900) may not appear. In this case, select the DDC standard monitor.

Functions of Controls

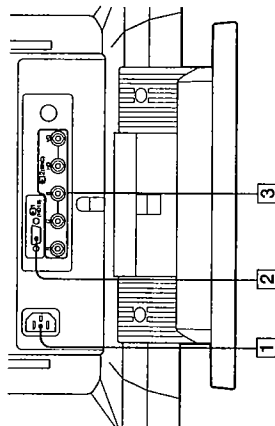
See the given pages for further description.

Front



- 1 **INPUT switch (page 5)**
Selects the input signal.
- 2 **RESET button (page 12)**
Resets the adjustment to the factory preset levels.
- 3 **OPTION button (pages 8, 9, 13, 16)**
Displays the "OPTION" OSD (On Screen Display).
- 4 **COLOR button (pages 12, 15)**
Displays the "COLOR" OSD to adjust color temperature.
- 5 **SCREEN button (pages 11, 14)**
Displays the "SCREEN" OSD to adjust the vertical and horizontal convergence, etc.
- 6 **GEOM (geometry) button (pages 10, 14)**
Displays the "GEOMETRY" OSD to adjust the picture rotation and pincushion, etc.
- 7 **SIZE button (pages 10, 14)**
Displays the "SIZE" OSD to adjust the picture size.
- 8 **CENT (center) button (pages 10, 14)**
Displays the "CENTER" OSD to adjust the picture position.
- 9 **Brightness -/+ (↑/↓) buttons (pages 8 - 16)**
Adjust the picture brightness.
- 10 **Contrast -/+ (←/→) buttons (pages 8 - 16)**
Adjust the contrast.
- 11 **Power saving indicator (page 17)**
Lights up when the monitor is in the Power Saving Mode.
- 12 **Power switch and indicator (page 17)**
Turns the monitor on or off. The indicator lights up when the monitor is turned on.

Rear



- 1 **AC IN connector**
Plug in an AC power cord.
- 2 **Video input 1 connector (HD15)**
Inputs RGB video signal (0.714 Vp-p, positive) and SYNC signal.

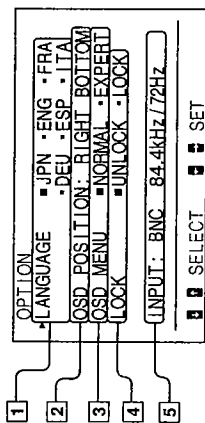


Pin No.	Signal	Pin No.	Signal
1	Red	8	Blue Ground
2	Green	9	DDC + 5V*
	(Composite Sync on Green)	10	Ground
3	Blue	11	Ground
4	Ground	12	Bi-Directional Data (SDA)*
5	DDC Ground*	13	H. Sync
6	Red Ground	14	V. Sync
7	Green Ground	15	Data Clock(SCL)*

* Display Data Channel (DDC) Standard by VESA

- 3 **Video input 2 connector (5 BNC)**
Inputs RGB video signal (0.714 Vp-p, positive).

OPTION OSD



- 1 **LANGUAGE (page 8)**
Selects an OSD language, Japanese, English, French, German, Spanish, or Italian.
- 2 **OSD POSITION (page 8)**
Changes the OSD position to be displayed.
- 3 **OSD MENU (pages 9, 13)**
Selects the adjustment mode, normal or expert.
- 4 **LOCK (page 16)**
Turns on or off the control lock function.
- 5 **INPUT (pages 5, 18)**
Shows the current active connector, the BNC connectors or the HD15 connector, and the signal frequency.

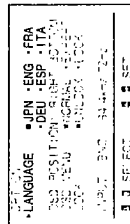
Selecting the OSD Language

Japanese, English, French, German, Spanish, or Italian versions of OSD are available.

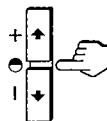
- 1 Press the **OPTION** button.
The "OPTION" OSD appears.



- 2 Press the **◀/▶** button to select "LANGUAGE".



- 3 Press the **◀/▶** button to select the desired language.



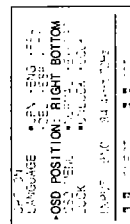
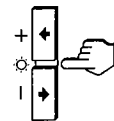
JPN: Japanese, ENG: English, FRA: French,
DEU: German, ESP: Spanish, ITA: Italian

The "OPTION" OSD automatically disappears after about 30 seconds. To turn off the OSD, press the **OPTION** button again.

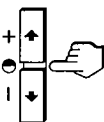
Changing the OSD Position

You can change the OSD position, for example, when you want to adjust the picture behind the OSD.

- 1 Press the **OPTION** button.
The "OPTION" OSD appears.
- 2 Press the **◀/▶** button to select "OSD POSITION".



- 3 Press the **◀/▶** button to move the OSD to the desired position.

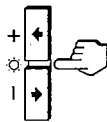


The "OPTION" OSD automatically disappears after about 30 seconds. To turn off the OSD, press the **OPTION** button again.

Operating the OSD

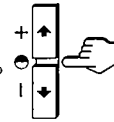
Select a parameter using the **◀/▶** buttons in the OSD which parameters are arranged in vertical row, and adjust or select the setting of the selected parameter using the **◀/▶** buttons.

To select a parameter to adjust or select the setting, press **◀/▶** or **▶/▶** button.
The green **▶** mark goes to the selected parameter and the parameter becomes yellow.



To adjust or select the settings of the selected parameter, press **◀/▶** or **▶/▶** button.

When adjusting, the bar length and the figure increase or decrease.
When selecting the setting, the green **▶** goes to the selected setting.



Adjustments (Normal mode)

You can adjust the picture to your preference.

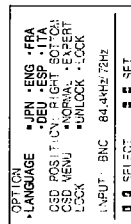
This monitor has two levels of adjustment mode, normal and expert.

Before adjusting

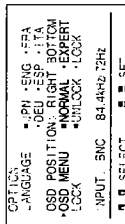
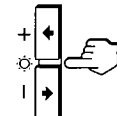
- Connect the monitor and the computer, turn them on and feed the signal to the monitor.
- Select "LANGUAGE" in the "OPTION" OSD, then select "ENG" (English) on page 8.

Selecting the normal mode

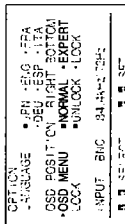
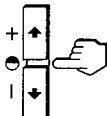
- 1 Press the **OPTION** button.
The "OPTION" OSD appears.



- 2 Press the **◀/▶** button to select "OSD MENU".
The "OSD MENU" becomes yellow.



- 3 Press the **◀/▶** button to select **NORMAL**.
Move the green **▶** to **NORMAL**.

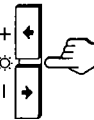


The "OPTION" OSD automatically disappears after about 30 seconds. To turn off the OSD, press the **OPTION** button again.

Adjusting the picture brightness

The adjustment data becomes the common setting for all input signals received.

- 1 Press the **◀/▶** button.
The "BRIGHTNESS/CONTRAST" OSD appears.



- 2 Press the **◀/▶** button again to adjust picture brightness.
↑... for less brightness
↑... for more brightness

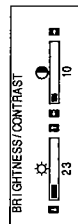
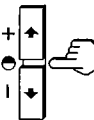
The OSD automatically disappears after about 3 seconds.

To reset, press the **RESET** button while the OSD is on. The brightness and contrast are both reset.

Adjusting the picture contrast

The adjustment data becomes the common setting for all input signals received.

- 1 Press the **◀/▶** button.
The "BRIGHTNESS/CONTRAST" OSD appears.



- 2 Press the **◀/▶** button again to adjust picture contrast.
↑... for less contrast
↑... for more contrast

The OSD automatically disappears after about 3 seconds.

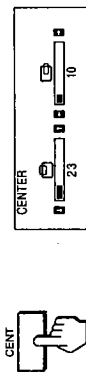
To reset, press the **RESET** button while the OSD is on. The brightness and contrast are both reset.

Adjustments (Normal mode)

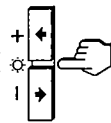
Adjusting the picture centering

The adjustment data becomes the individual setting for each input signal received.

- 1 Press the **CENT** button.
The "CENTER" OSD appears.

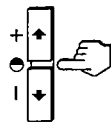


- 2 For vertical adjustment
Press the $\uparrow/\downarrow$ buttons.



$\uparrow$... to move down
 $\downarrow$... to move up

- For horizontal adjustment
Press the $\leftarrow/\rightarrow$ buttons.



$\leftarrow$... to move left
 $\rightarrow$... to move right

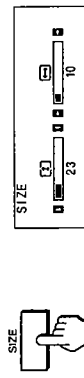
The OSD automatically disappears after about 10 seconds.
To turn off the OSD, press the **CENT** button again.

To reset, press the **RESET** button while the OSD is on. The horizontal and vertical centerings are both reset.

Adjusting the picture size

The adjustment data becomes the individual setting for each input signal received.

- 1 Press the **SIZE** button.
The "SIZE" OSD appears.

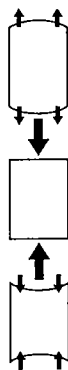


The OSD automatically disappears after about 10 seconds.
To turn off the OSD, press the **SIZE** button again.

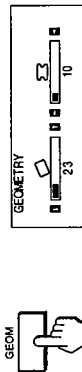
To reset, press the **RESET** button while the OSD is on. The picture rotation and the pincushion settings are both reset.

Adjusting the pincushion

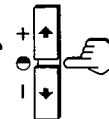
The adjustment data becomes the individual setting for each input signal received.



- 1 Press the **GEOM** button.
The "GEOMETRY" OSD appears.



- 2 Press the $\leftarrow/\rightarrow$ button so that the picture edges become straight.

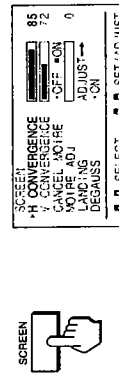


The OSD automatically disappears after about 10 seconds.
To turn off the OSD, press the **GEOM** button again.

To reset, press the **RESET** button while the OSD is on. The picture rotation and the pincushion settings are both reset.

Adjusting the screen

- 1 Press the **SCREEN** button.
The "SCREEN" OSD appears.



- 2 Press the $\uparrow/\downarrow$ button to select the parameter you want to adjust referring to the following.
The selected parameter turns yellow.

The OSD automatically disappears after about 30 seconds.
To turn off the OSD, press the **SCREEN** button again.

To reset, press the **RESET** button while the OSD is on. The selected parameter is reset.

Convergence

The adjustment data becomes the common setting for all input signals received.

Press the $\leftarrow/\rightarrow$ button so that the red or blue shadow disappears.

"H CONVERGENCE" (Horizontal convergence)

$\leftarrow$... to move Red to the left and Blue to the right
 $\rightarrow$... to move Red to the right and Blue to the left

"V CONVERGENCE" (Vertical convergence)

$\uparrow$... to move Red down and Blue up
 $\downarrow$... to move Red up and Blue down

Ccanceling the Moire

The adjustment data becomes the individual setting for each input signal received.

Press the $\leftarrow/\rightarrow$ button to select "ON" for "CANCEL MOIRE."

If the picture becomes unclear

The picture may become unclear by canceling moire.

- 1 Press the $\uparrow/\downarrow$ button to select "MOIRE ADJ."
- 2 Press the $\leftarrow/\rightarrow$ button to adjust beginning from 0 until the moire is minimum.

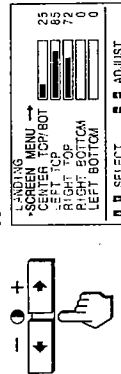
Landing

Correct when the color is not uniform due to influence from the earth's magnetism.

The adjustment data becomes the common setting for all input signals received.

First, degauss the screen, then display an entirely white picture for more than 20 minutes before the adjustment to adjust more accurately.

- 1 Press the $\uparrow/\downarrow$ button to select "DEGAUSS."
- 2 Press the $\leftarrow/\rightarrow$ button.
- 3 The screen is degaussed for about five seconds.
- 4 Press the $\uparrow/\downarrow$ button to select "LANDING."
- 5 Press the $\leftarrow/\rightarrow$ button to select the position, and adjust by pressing the $\leftarrow/\rightarrow$ button.



To return to the "SCREEN" OSD, select "SCREEN MENU" and press the $\leftarrow/\rightarrow$ button.

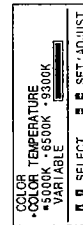
To reset, press the **RESET** button while the OSD is on. The selected parameter is reset.

Adjustments (Normal mode)

Adjusting the color temperature

The adjustment data becomes the common setting for all input signals received.

- 1 Press the **COLOR** button.
The "COLOR" OSD appears.



- 2 Press the **0** and **1** buttons to select a color temperature.

The factory settings are:
5000K, 6500K, 9300K

Adjusting the color temperature

Press the **0** and **1** button to select "VARIABLE," and adjust by pressing the **0** and **1** buttons.

The figure of the adjusted color temperature changes.

The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the **COLOR** button again.

To reset, press the **RESET** button while the OSD is on. The selected color temperature is reset. The adjustments you made in the expert mode (page 15) are also reset.

Resetting to the factory-preset levels

- 1 Press the button of the OSD you want to reset to the factory setting.
- 2 When the parameters are arranged in vertical row in the OSD, select a parameter you want to reset by pressing the **0** and **1** buttons.
- 3 Press the **RESET** button.

RESET



Resetting all adjustment data

When there is no OSD displayed, press and hold the **RESET** button for more than two seconds. All adjustment data including the brightness and contrast are reset to factory-preset levels.

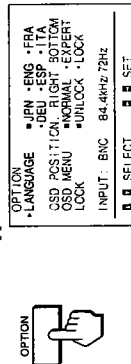
You can adjust more in detail in the expert mode than in the normal mode.

Before adjusting

- Connect the monitor and the computer, turn them on and feed the signal to the monitor.
- Select "LANGUAGE" in the "OPTION" OSD, then select "ENG" (English) on page 8.

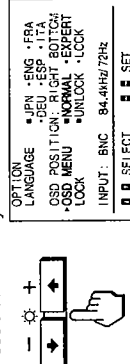
Selecting the expert mode

- 1 Press the **OPTION** button.
The "OPTION" OSD appears.



- 2 Press the **0** and **1** button to select "OSD MENU."

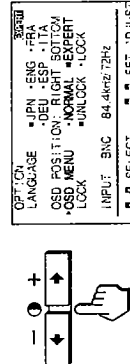
The "OSD MENU" turns yellow.



- 3 Press the **0** and **1** button to select "EXPERT."

Move the green **EXPERT** to the top right corner of the OSD in Expert mode.

EXPERT appears at the top right corner of the OSD in Expert mode.



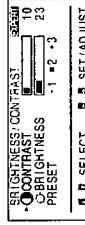
The "OPTION" OSD automatically disappears after about 30 seconds. To turn off the OSD, press the **OPTION** button again.

Adjustments (Expert mode)

Adjusting the picture brightness and contrast

The adjustment data becomes the common setting for all input signals received.

- 1 Press the **0** and **1** button or the **0** and **1** button.
The "BRIGHTNESS/CONTRAST" OSD appears.



- 2 Press the **0** and **1** button to select "PRESET" and the **0** and **1** button to select a preset number.
When you want to use the monitor later in the same condition, just select the same preset number.

- 3 Press the **0** and **1** button or the **0** and **1** button to adjust the brightness or contrast.

BRIGHTNESS:

Adjusts the picture brightness.

CONTRAST:

Adjusts the picture contrast.

The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the **0** and **1** or **0** and **1** button again.

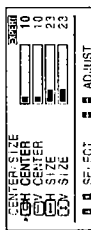
To reset, press the **RESET** button while the OSD is on. The selected preset number is reset.

Adjustments (Expert mode)

Adjusting the picture centering and size

The adjustment data becomes the individual setting for each input signal received.

- 1 Press the **SIZE** button or the **CENT** button. The "CENTER/SIZE" OSD appears.



- 2 Press the **↔/↑** button to select and the **0 ↔/→** button to adjust the parameter.

- ☐ **H KEY BAL:** Adjusts the picture position in horizontal direction.
- ☐ **V KEY BAL:** Adjusts the picture position in vertical direction.
- ☐ **ROTATION:** Adjusts the picture size in horizontal direction.
- ☐ **S PIN BAL:** Adjusts the picture size in vertical direction.
- ☐ **C BOW:** Adjusts the picture size in horizontal direction.
- ☐ **FLARE TOP/FLARE BOT:** Adjusts the picture size in vertical direction.
- ☐ **V LINEARITY/V LIN BAL:** Adjusts the picture size in vertical direction.

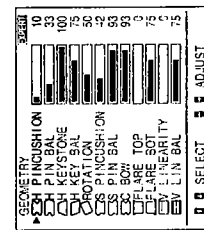
The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the **SIZE** or **CENT** button again.

To reset, press the **RESET** button while the OSD is on. The selected parameter is reset.

Adjusting the picture rotation and the pincushion

The adjustment data becomes the individual setting for each input signal received.

- 1 Press the **GEOM** button. The "GEOMETRY" OSD appears.



- 2 Press the **↔/↑** button to select and the **0 ↔/→** button to adjust the parameter.

- ☐ **H CONVERGENCE/V CONVERGENCE:** Adjusts the horizontal convergence and the vertical convergence. The adjustment data becomes the common setting for all input signals received.
- ☐ **V CONV TOP/V CONV BOT:** Adjusts the vertical convergence at the top and bottom of the screen. The adjustment data becomes the common setting for all input signals received.
- ☐ **H FOCUS:** Adjusts the horizontal focusing. The adjustment data becomes the common setting for all input signals received.

- 2 Press the **↔/↑** button to select and the **0 ↔/→** button to adjust the parameter.

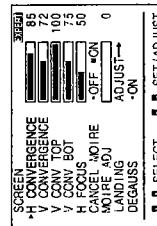
- ☐ **H PINCUSHION/H PIN BAL:** Corrects the picture distortion of the picture edges.
- ☐ **H KEYSTONE:** Corrects the difference of picture size at the top and bottom.
- ☐ **H KEY BAL:** Corrects the imbalance of picture position at the top and bottom.
- ☐ **ROTATION:** Corrects the picture rotation.
- ☐ **S PINCUSHION/S PIN BAL:** Corrects the wavy distortion of the picture edges.
- ☐ **FLARE TOP/FLARE BOT:** Corrects the flare distortion of the picture at the top and bottom.
- ☐ **V LINEARITY/V LIN BAL:** Corrects the vertical linearity and the vertical linearity balance.

The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the **GEOM** button again.

To reset, press the **RESET** button while the OSD is on. The selected parameter is reset.

Adjusting the screen

- 1 Press the **SCREEN** button. The "SCREEN" OSD appears.



- 2 Press the **↔/↑** button to select and the **0 ↔/→** button to adjust the parameter.

- ☐ **H CONVERGENCE/V CONVERGENCE:** Adjusts the horizontal convergence and the vertical convergence. The adjustment data becomes the common setting for all input signals received.
- ☐ **V CONV TOP/V CONV BOT:** Adjusts the vertical convergence at the top and bottom of the screen. The adjustment data becomes the common setting for all input signals received.
- ☐ **H FOCUS:** Adjusts the horizontal focusing. The adjustment data becomes the common setting for all input signals received.

- 1 Press the **ON** button. The "ON" OSD appears.

The adjustment data becomes the individual setting for each input signal received.

- 2 Press the **MOIRE** button. The "MOIRE" OSD appears.

The adjustment data becomes the individual setting for each input signal received.

- 3 Press the **LANDING** button. The "LANDING" OSD appears.

The adjustment data becomes the individual setting for each input signal received.

- 4 Press the **DEGAUSS** button. The "DEGAUSS" OSD appears.

The adjustment data becomes the individual setting for each input signal received.

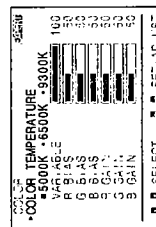
- 5 Press the **RESET** button. The "RESET" OSD appears.

The adjustment data becomes the individual setting for each input signal received.

Adjusting the color

The adjustment data becomes the common setting for all input signals received.

- 1 Press the **COLOR** button. The "COLOR" OSD appears.



- 2 Press the **0 ↔/→** button to select the color temperature to adjust, 5000, 6500 or 9300.

- 3 Press the **↔/↑** button to select and the **0 ↔/→** button to adjust the parameter.

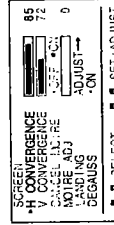
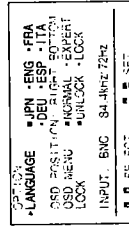
- ☐ **VARIABLE:** Adjusts the color selected in step 2 to the desired color temperature. The figure of the selected color temperature changes.
- ☐ **R BIAS/G BIAS/B BIAS:** Adjusts the black level of each signal. "++" appears at the right shoulder of the adjusted color temperature.
- ☐ **R GAIN/G BIAS/B GAIN:** Adjusts the white level of each signal. "++" appears at the right shoulder of the adjusted color temperature.

Control Lock Function

The control lock function disables all the buttons on the front panel except the $\odot$ (power) and OPTION buttons and the INPUT switch.

- 1 Press the **OPTION** button.

The "OPTION" OSD appears.



- 2 Press the $\odot$ $\swarrow/\nearrow$ button to select "DEGAUSS."

- 3 Press the $\odot$ $\rightarrow$ button.

The screen is degaussed for about five seconds.

Plug & Play

This monitor complies with the DDC™1, DDC2B and DDC2AB which are the Display Data Channel (DDC) standards of VESA.

When a DDC1 host system is connected, the monitor synchronizes with the V. CLK in accordance with the VESA standards and outputs the EDID (Extended Display Identification Data) to the data line.

When a DDC2B or DDC2AB host system is connected, the monitor automatically switches to each communication.

DDC™ is a trademark of Video Electronics Standard Association.

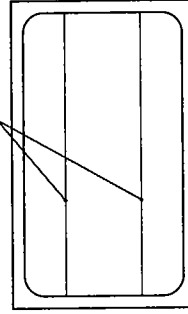
Damper Wire

Using a white background, very thin horizontal lines on the screen are visible as shown below. These lines are damper wires.

The Trinitron tube has a vertically striped Aperture Grille inside. The Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.

These damper wires are attached to the Aperture Grille to prevent vibration of the Aperture Grille wire so that the screen image is constantly stable.

Damper wire



Power Saving Function

This monitor is capable of three states of reduced power consumption. By sensing the absence of video signals and one or both sync signals coming from the host computer, it will reduce power consumption as follows.

	Power consumption state	Power consumption	Recovery time	POWER SAVING indicator
1	Normal operation	≤ 200 W	—	Off
2	Standby (1st state)	≤ 140 W	Approx. 3 sec.	Orange on
3	Suspend (2nd state)	≤ 15 W	Approx. 3 sec.	Orange on
4	Active-off (3rd state)	≤ 8 W	Approx. 10 sec.	Orange on
5	Power-off	0 W	—	Off

Power saving operation

- The H-sync is not present.
→ The unit goes into standby state.
- The V-sync is not present.
→ The unit goes into suspend state.
- Both the H-sync and V-sync are not present.
→ The unit goes into active-off state.

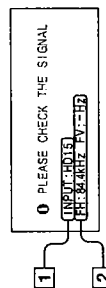
The monitor requires a video card or screen saver software which switches off one or both sync signals to activate the power saving function.

Caution

If no video signal is input to the monitor, or if the INPUT switch is set to the connector to which no signal is input when you turn on the monitor, the input signal warning indicator (page 18) appears. After 30 seconds, the Power Saving function automatically puts the monitor into the Active-off state and the POWER SAVING indicator lights up. Once the horizontal and vertical syncs are sensed, the monitor will automatically return to its Normal operation state.

Input Signal Warning Function

If there is something wrong with the input signal, one of the following messages appears when you turn the monitor off and on, or when you operate the INPUT switch. The message disappears after about 30 seconds.



- 1 Shows the INPUT switch setting.
- 2 Shows the input signal condition.

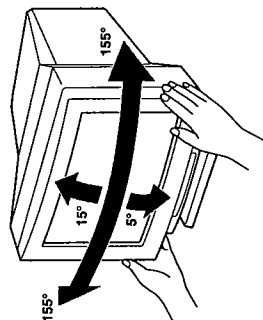
"FF: - kHz" indicates no horizontal sync signal.
 "FW: - Hz" indicates no vertical sync signal.

"OUT OF SCAN RANGE" indicates that the input signal is not supported by the monitor's specifications.

"NO CONNECTION" indicates that the supplied video signal cable is disconnected from the HD15 connector when the INPUT switch is set to "HD15."

Use of the Tilt-Swivel

With the tilt-swivel, this unit can be adjusted to be viewed at the desired angle within 310° horizontally and 20° vertically.
 To turn the unit vertically and horizontally, hold it at its bottom with both hands as illustrated below.



Specifications

Picture tube	0.25 - 0.28 mm aperture grille pitch 24 inches measured diagonally
Viewable image size	90-degree deflection Approx. 482 x 304 mm (w/h) (19 x 12 inches)
Resolution	22.5" viewing image Horizontal: Max. 1920 dots Vertical: Max. 1200 lines
Standard image area	Approx. 473 x 296 mm (w/h) (18 3/8 x 11 3/4 inches)
Deflection frequency	Horizontal: 30 to 96 kHz Vertical: 50 to 160 Hz
Input	HD15 (1), 5 BNC (1) R/G/B: 75 Ω, 0.714 Vp-p, positive HD/VD or Composite sync Sync-on-green: 0.286 Vp-p, negative
AC input voltage/current	100 to 120 V, 50/60 Hz, 2.2 A 200 to 240 V, 50 - 60 Hz, 1.4 A
Power consumption	Max. 200 W
Dimensions	580 x 500 x 548 mm (w/h/d) (22 7/8 x 19 3/4 x 21 5/8 inches)
Mass	Approx. 41 kg (90 lb 6 oz)
Design and specifications are subject to change without notice.	

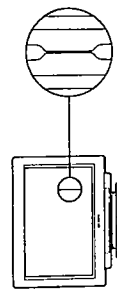
Troubleshooting

This section may help you isolate a problem and as a result, eliminate the need to contact technical support, allowing continued productivity.
 Note the model name and the serial number of your monitor. Also note the make and name of your computer and video board.

Symptom	Check these items
No picture	- If neither (power) indicator nor POWER SAVING indicator is lit • Check that the power cord is properly connected. • Check that the (power) switch is in the "on" position. - If the POWER SAVING indicator is lit • Check that your computer power switch is in the "on" position. • The monitor will recover when you press any key on the keyboard of the computer. • The INPUT switch setting is incorrect. • Check that the video signal cable is properly connected and all plugs are firmly seated in their socket. • Check that the 5 BNC's are connected in the correct order (from the power cord side: Red-Green-Blue-HD-VD). • Ensure that no pins are bent or pushed in the HD15 video input connector. • Check that the video board is seated completely in the proper bus slot. - If the (power) indicator is flashing in green • Check that the video frequency range is within that specified for the monitor. (Horizontal: 30 - 96 kHz, Vertical: 50 - 160 Hz) - If the (power) and/or POWER SAVING indicators are flashing in orange • Turn the monitor off and on. If the indicator is still flashing, there is a potential monitor failure. - If you do the above procedures and the monitor does not recover • Unplug the video input 1 and 2 connectors and wait for 5 seconds. Then press and hold the (power) button for 2 seconds to display the color bars. If the color bars appear, the monitor may be in normal condition. Turn the monitor off and on to return to the normal operation mode. If the color bars do not appear, there is a potential monitor failure. - If using a Macintosh system • Check that the Macintosh adapter and the video signal cable are properly connected, and the dip switches of the adapter are properly set. - If using a Windows95 system • When you cannot find "GDM-W900" among the Sony monitors on the Windows95 device select screen, select the DDC standard monitor.
Picture is scrambled	• Check your graphic board manual for proper monitor setting. • Check this manual and confirm that the graphic mode and the frequency at which you are trying to operate is supported (page 5). Even within the proper range some video boards may have a sync pulse that is too narrow for the monitor to sync correctly.
Color is not uniform	• Degauss the monitor (page 16). If you place equipment which generates a magnetic field such as a loudspeaker, or you change the direction of the monitor, color may lose uniformity. This function is to demagnetize the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result. • Adjust the landing (page 11).
You cannot adjust the monitor with the buttons on the front panel	• If the control lock function is set to on, set it to off on the OPTION OSD (page 16). You will be able to adjust the monitor.
White does not look white	• Adjust color (page 12, 15). • Check that the 5 BNC's are connected in the correct order (from the power cord side: Red-Green-Blue-HD-VD).

Troubleshooting

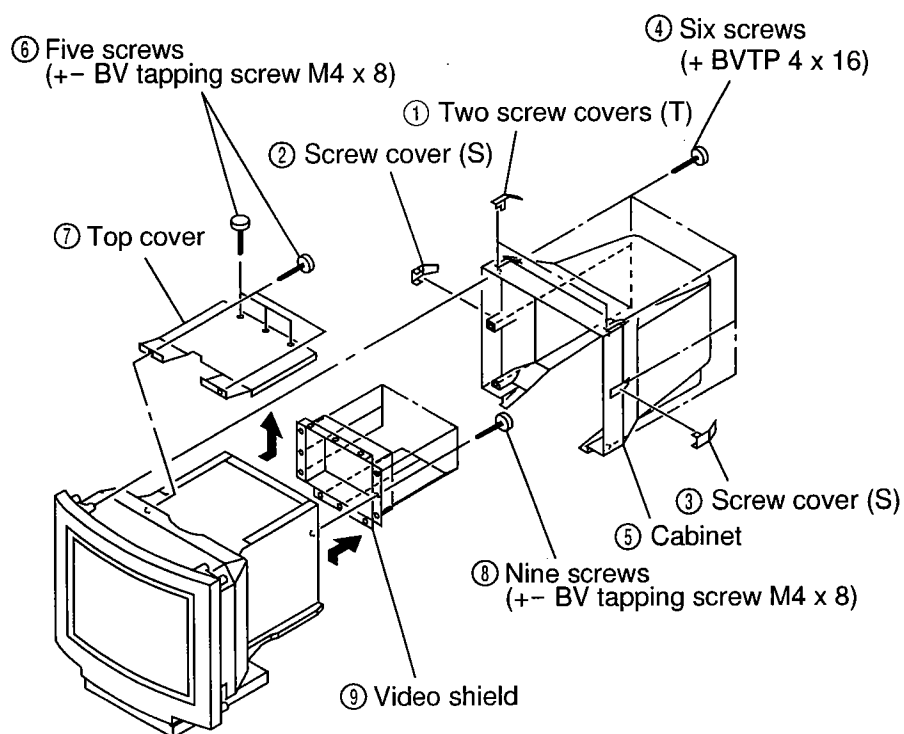
Symptom	Check these items
Screen image is not centered or sized properly	- Adjust the centering or size (pages 10, 14). - Some video modes do not fill the screen to the edge of the monitor. There is no single answer to solve the problem. This problem tends to occur on higher refresh timings.
Edges of the image are curved	Adjust the geometry items such as pincushion and keystone distortion (page 11, 14).
White lines show red or blue shades at edges	Adjust the convergence (pages 11, 14).
Picture is fuzzy	- Adjust the contrast and brightness (page 9). - Degauss the monitor (page 16). - If you place equipment which generates a magnetic field such as a loudspeaker, or you change the direction of the monitor, color may lose uniformity. - This function is to demagnetize the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result. - If red or blue shades are found at the edge of images, adjust the convergence (pages 11, 14). - If the moire is cancelled, the picture may become fuzzy. Adjust so that the picture is as clear as possible (page 11, 15).
Picture bounces or has wavy oscillations	- Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting, laser printers, and so on. - If you have another monitor close to this monitor, increase the distance between them to reduce the interference. - Try plugging the monitor into a different AC outlet, preferably on a different circuit. - Try the monitor on a completely different computer in a different room.
Picture is not stable	Set the refresh rate to non-interface of 75 Hz or more on the computer referring to the computer's manual.
Picture appears to be ghosting	Eliminate the use of video cable extension cable and/or video switch boxes if this symptom occurs. Excessive cable length or weak connection can produce this symptom.
Two fine horizontal lines (wires) are visible	These wires stabilize the vertically striped Aperture Grille (page 17). This Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.
Wavy or elliptical (moire) pattern is visible	- Cancel the moire (page 11, 15). - The moire may be modified depending on the connected computer. - Due to the relationship between resolution, monitor dot pitch and the pitch of some image patterns, certain screen backgrounds, especially gray, sometimes show moire. Change your desktop pattern.
Hum is heard right after the power is turned on	When the power is turned on, the auto-degauss cycle is activated. While the Auto-degauss cycle is activated, a hum may be heard. This is not a malfunction.
Because of vibration and shock during transportation, the Aperture Grille may occasionally slip out of place and black stripes may appear	Lightly pat the sides of the monitor.



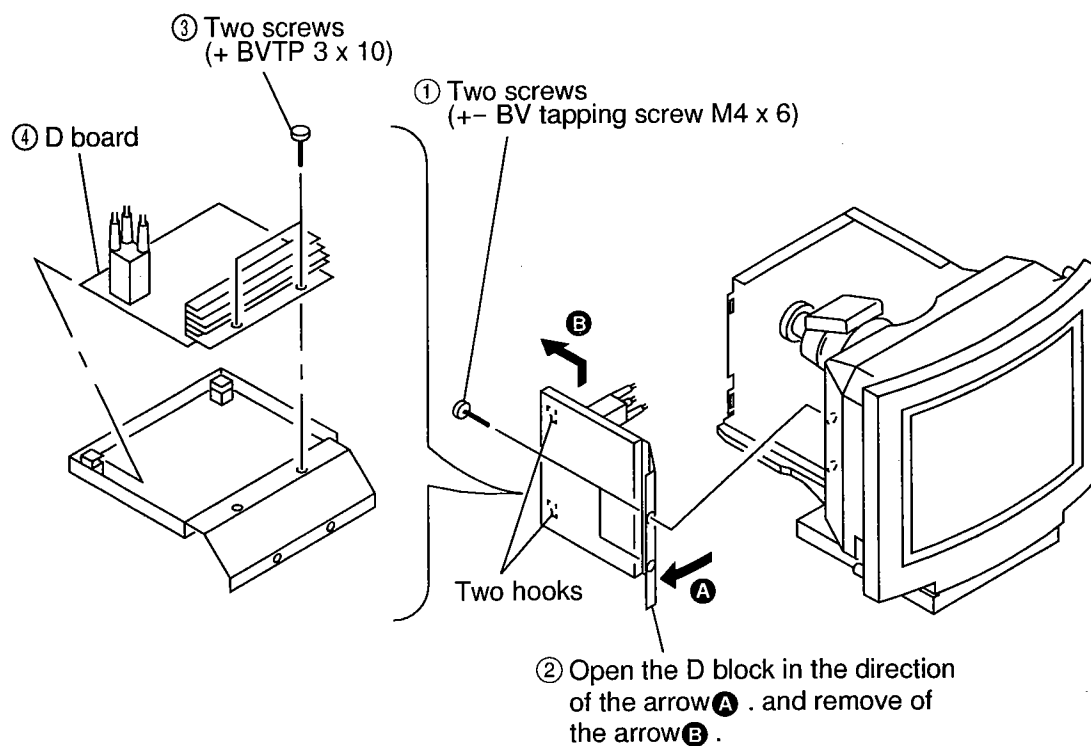
SECTION 2

DISASSEMBLY

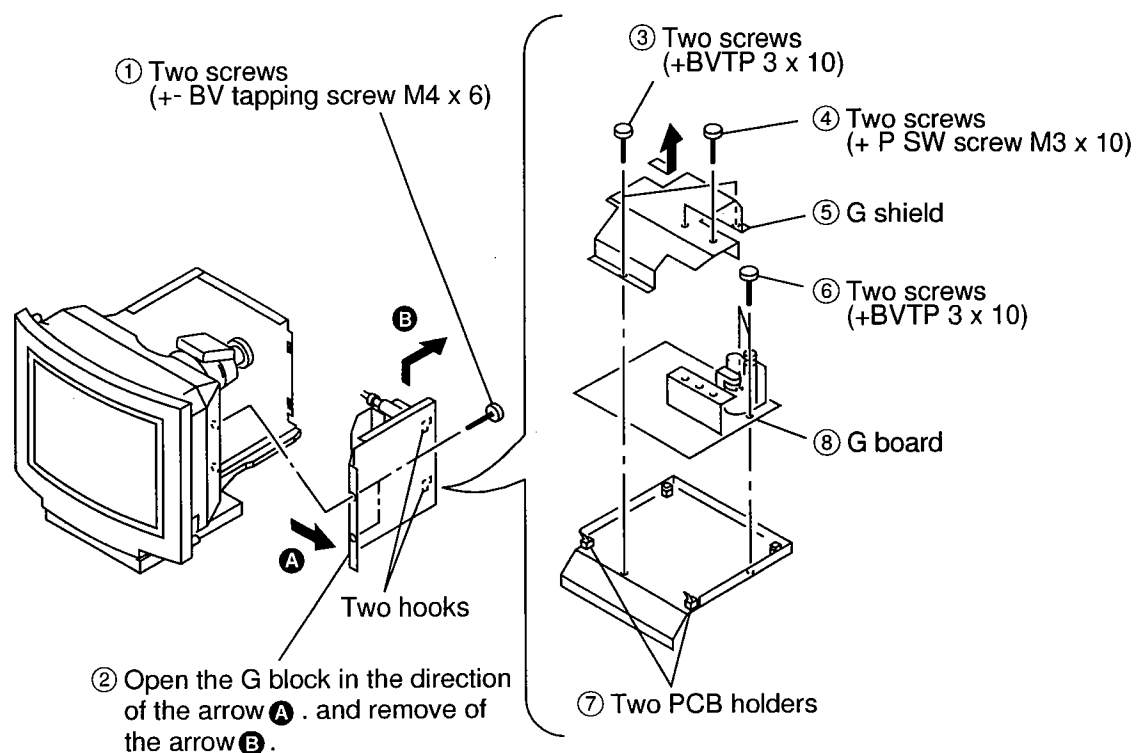
2-1. CABINET REMOVAL



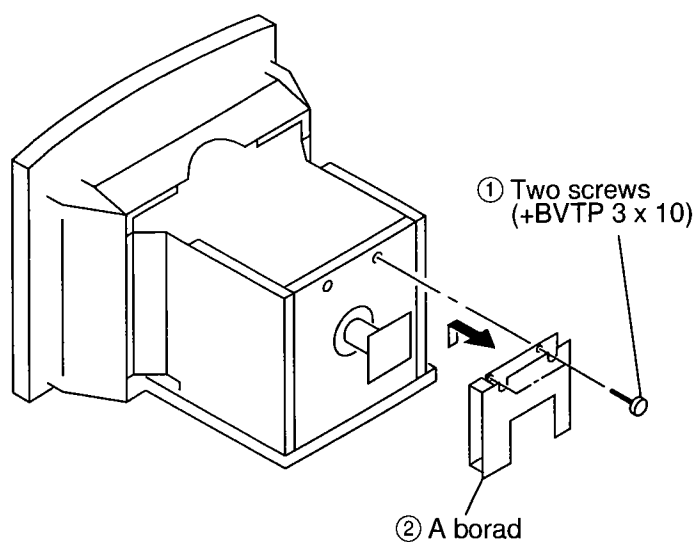
2-2. D BOARD REMOVAL



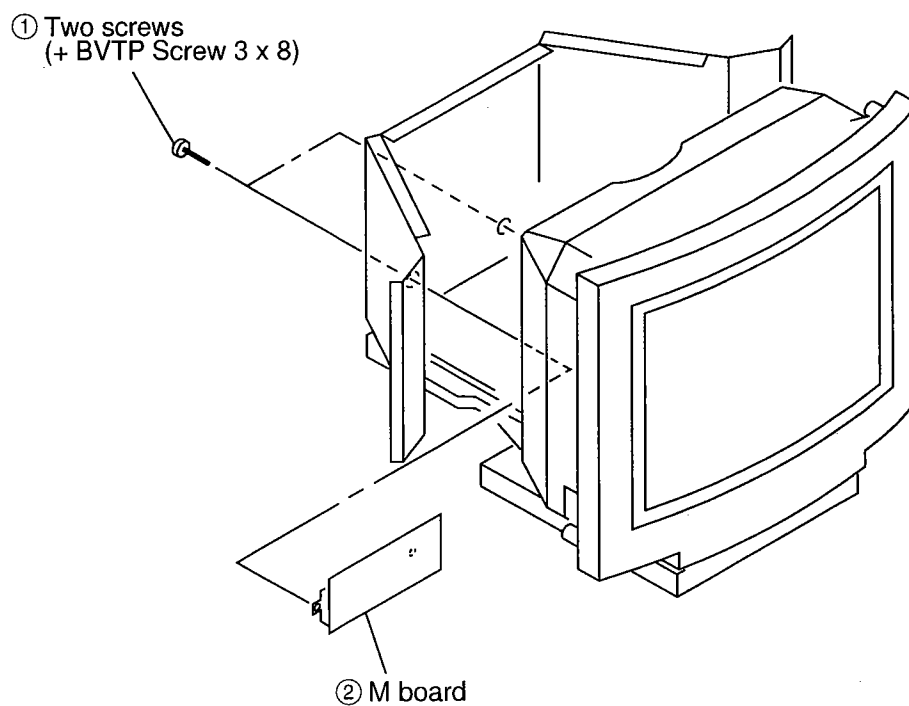
2-3. G BOARD REMOVAL



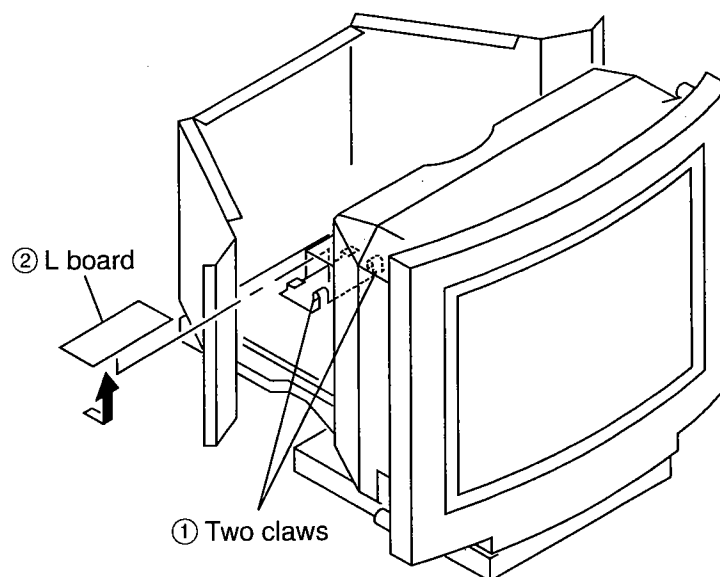
2-4. A BOARD REMOVAL



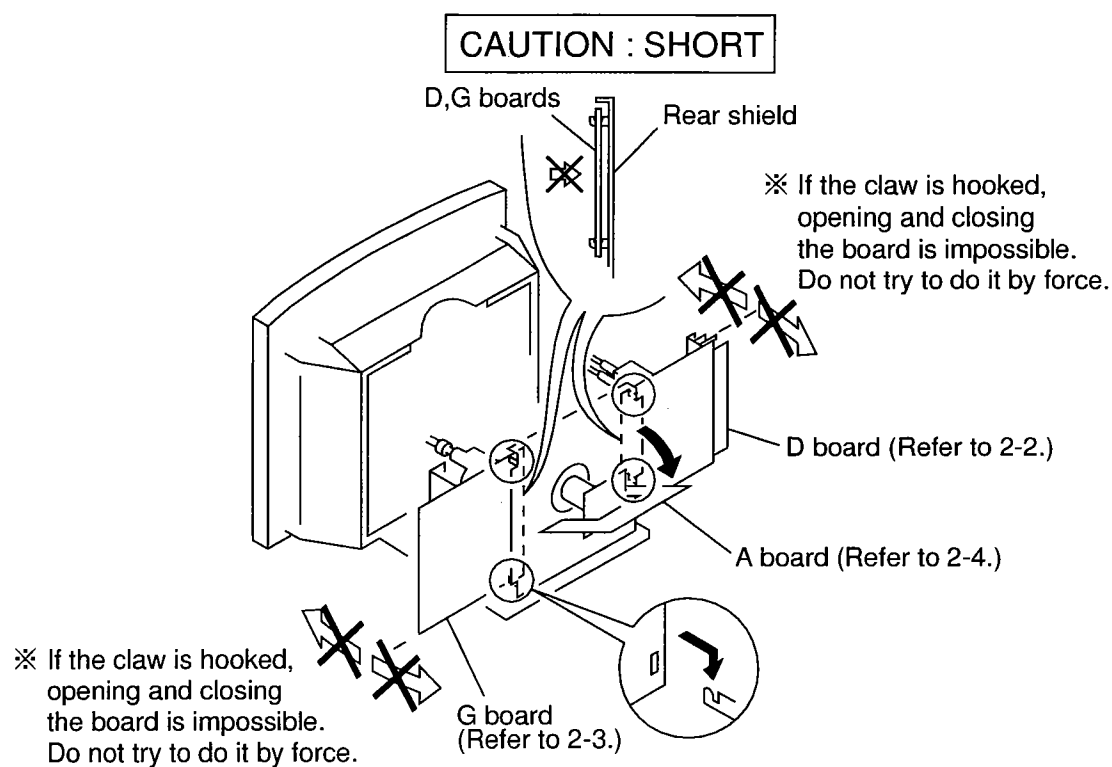
2-5. M BOARD REMOVAL



2-6. L BOARD REMOVAL



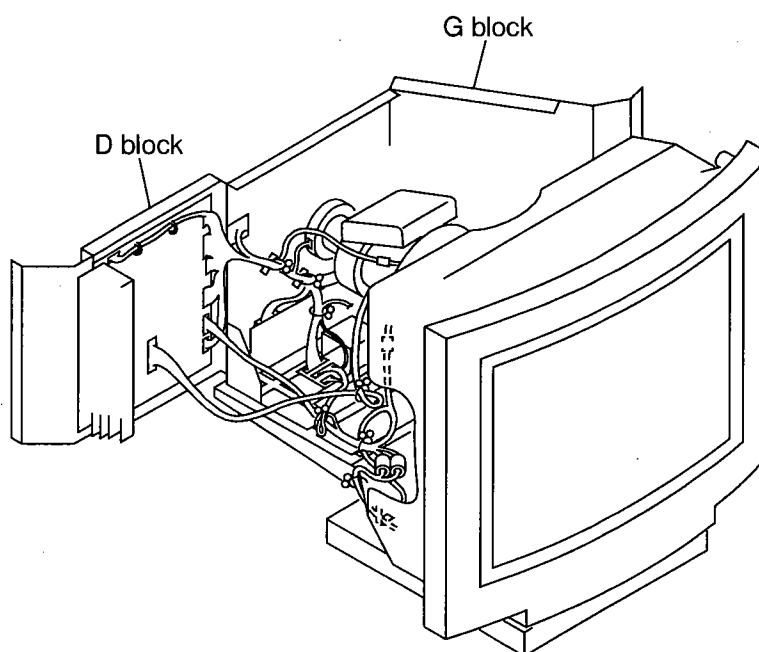
2-7. SERVICE POSITION



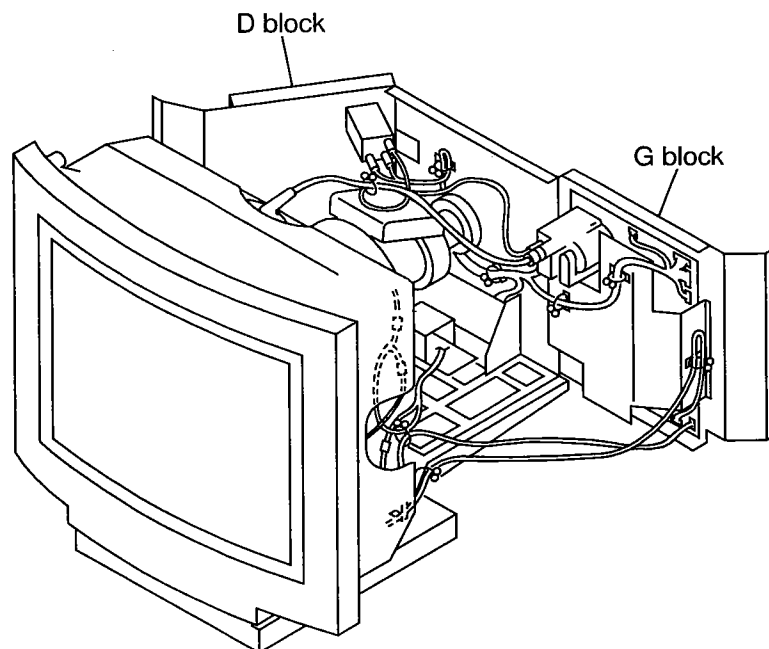
2-8. HARNESS LOCATION

※ The D and G blocks are not widely opened after the wires are properly arranged, as shown in the figure.

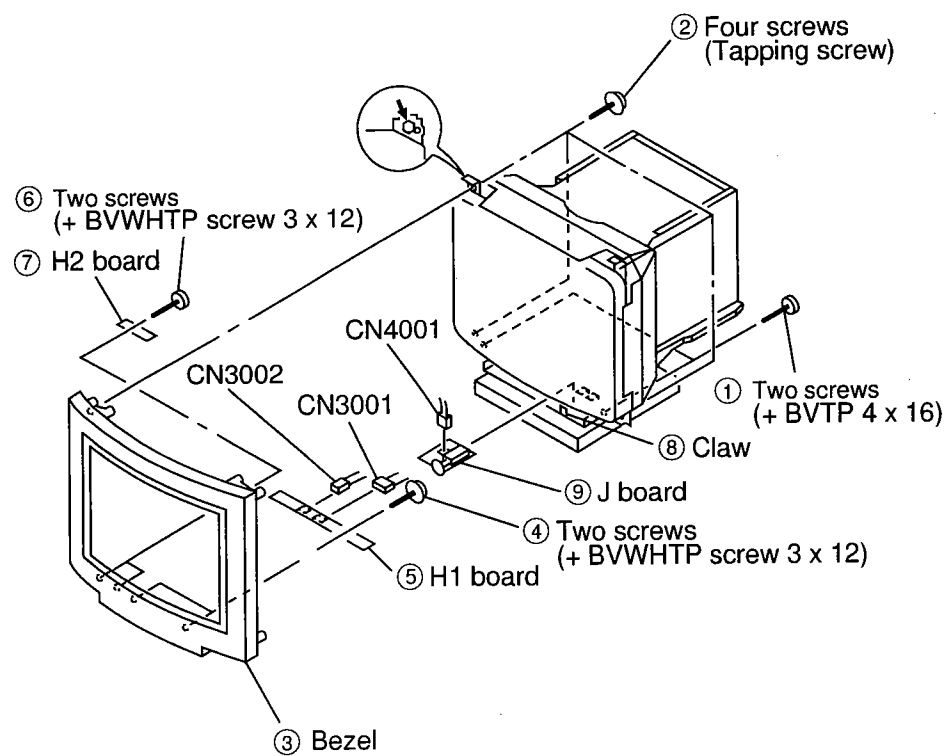
(1) D block side



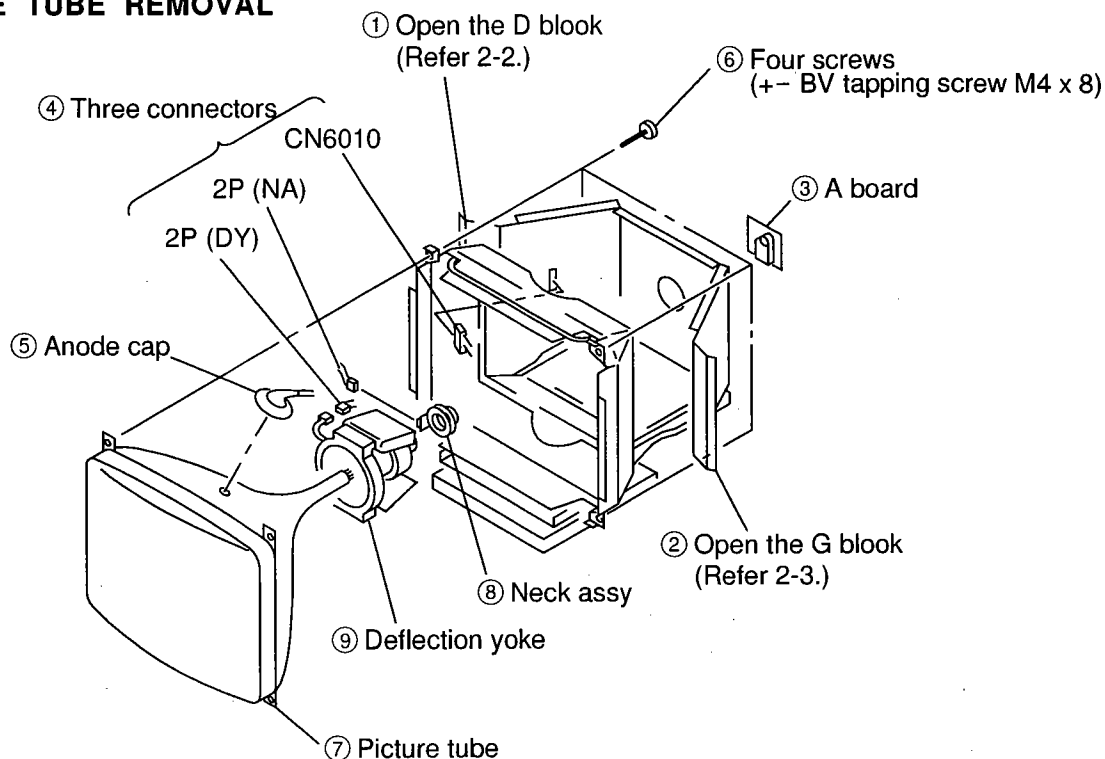
(2) G block side



2-9. H1, H2 AND J BOARDS REMOVAL

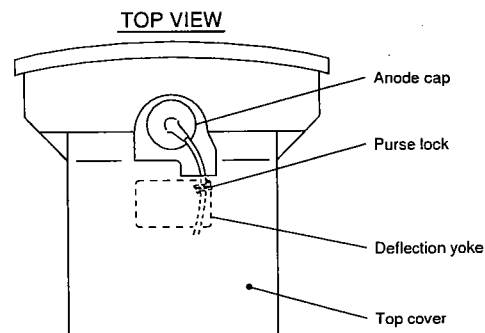


2-10. PICTURE TUBE REMOVAL



• INSTALLED POSITION OF THE ANODE-CAP

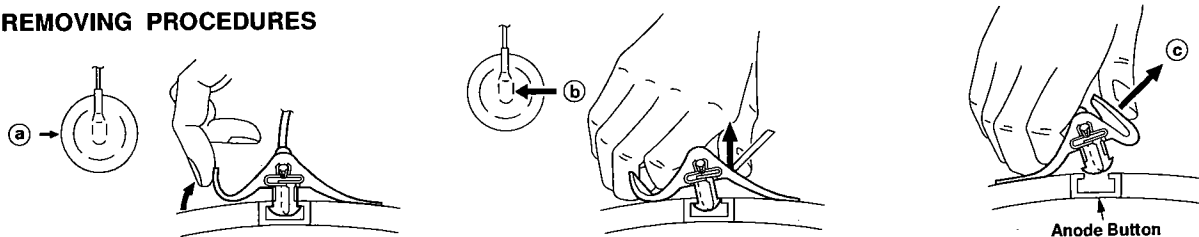
Install the anode cap as shown a figure.



• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

• REMOVING PROCEDURES



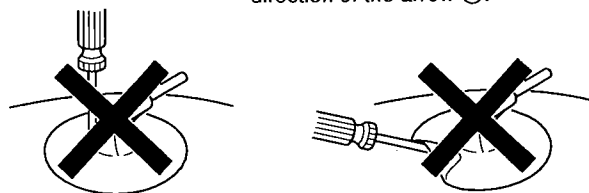
① Turn up one side of the rubber cap in the direction indicated by the arrow (a).

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).

③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (▣)	
HV Regulator Circuit Check	GB board	IC4202 • Mounted GB board
HV Hold-Down Circuit Check	G board	D4220 • Mounted G board • Mounted GB board
Beam Current Protector#1 Circuit Check	G board	D4204,D4206,D4220, R4211,R4212,R4216, R4219 • Mounted G board
	GB board	IC4202 • Mounted GB board
Beam Current Protector#2 Circuit Check	G board	R4222, R4223 • Mounted G board • Mounted GB board
Voltage of 3rd winding of FBT	G board	T4202(FBT) • Mounted G board

Check Condition

Input voltage : 100~120 V AC

Input signal : White dots or Cross Hatch

Controls : BRT and CONT → Minimum

B+ voltage : 193~201 V DC

a) HV Regulator Circuit Check

- 1) Confirm that the voltage of the pin ⑩ of IC4202 on GB board is within the voltage range shown below.

Standard: 9.00 ± 0.10 V DC

b) HV Hold-Down Circuit Check

- 1) Using an external DC power supply, apply the voltage shown below between cathode of D4220 on G board and ground, and confirm that the HV Hold-Down circuit works. (TV Raster disappears)
Check Condition: Less than $33.8^{+0.0}_{-0.1}$ V DC

c) Beam Current Protector#1 Circuit Check

- 1) Record the initial regulation value of ABL-SHUTDOWN and using a PC computer, input the "255" for maximum value of resistor.
- 2) Connect to the Constant Current Jig (A) between pin ⑪ of T4202 (FBT) on G board and ground, and confirm that the Beam Current Protector Circuit works. (TV Raster disappears)
Check Condition: Less than 1.55 mA

d) Beam Current Protector#2 Circuit Check

Input the initial regulation value of ABL-SHUTDOWN that was recorded c)-1).

- 1) Shorted between pin ⑪ of IC4202 on GB board and ground.
- 2) Connect to the Constant Current Jig (A) between pin ⑪ of T4202 (FBT) on G board and ground, and confirm that the Beam Current Protector Circuit works. (TV Raster disappears)
Check Condition: Less than 1.72 mA

e) Voltage of 3rd winding of FBT

- 1) Confirm that the voltage of the cathode of D4220 on G board is within the voltage range shown below.
Standard: More than 28.0 V DC

SECTION 4

ADJUSTMENTS

● Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal).
 2. Adjust the contrast to the maximum.
 3. Make the screen monogreen.
- Note: Off the outputs from R ch and B ch of SG.
4. Adjust the brightness is easy to see with the G2 resistor.
 5. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
 6. Moving the DY forward, adjust so that an entire screen becomes monogreen.
 7. Adjust the tilt of DY, and fix lightly with a clamp.

● Landing Fine Adjustment

1. Put the set inside the Helmholtz coil.
2. Input the single green signal and set the CONT control to MAX.

Note: Set to $\Sigma 1k=300 \mu A$ with the signal green signal, and after aging for about 30 minutes, adjust so that it is exactly this value.

3. Before making any adjustment, confirm that respective preadjustment values of the registers listed below have been entered correctly.

LCC K TEMP	100	LCC R TOL	128
LCC K EW C	105	LCC SW7	7
LCC K NS C	0	LCC TEMP	151
LCC K NS	160	LCC VX	#
LCC K NS FOR ROT	64	LCC VY	#
LCC K ROT FOR NS	46	LCC K VY NS	0
LCC K POL	255	LCC P TOL	128
LCC WO	128		

#=Input values in time adjustments

Also, confirm that "LCC NS=LCC LT=LCC LB=LCC RB=LCC RT=128"

4. Send the "LCC READ" command of the ECS.
If the ECS command cannot be used, execute the status reading and VX, VY and V TEMP values may be entered to "LCC VX", "LCC VY" and "LCC TEMP" respectively.
5. Execute the service saving.
6. Demagnetize the metal part of the chassis with the hand degausser and coil degausser, and the CRT surface with the hand degausser.

Input AC 230V to AC IN, turn on and off the power to perform auto degaussing. (Perform auto degaussing by setting "MON CON REG 2"=152. Return to the original value after use.)

Demagnetize the CRT surface with the hand degausser again.

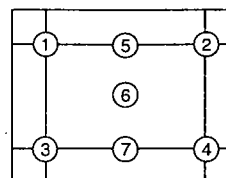
Note: The power must be turned off during chassis degaussing.

7. Attach the wobbling coil to the designated part of the CRT neck.
8. Attach the sensor of the landing adjustment unit on the CRT surface.
9. Adjust the DY position and purity, and the DY tilt, and landing of the center and 4 corners with the landing checker.

Note:

- (1) Adjust in a non-magnetic field. $BV=35uT$.
- (2) If adjusting in a magnetic field, add the shift from the non-magnetic field in your estimation.

<Specification>



Adjust the green of corners 1 to 4, and center 6 to $\pm 5 \mu m$, and red and blue to within $\pm 7 \mu m$ of green, and the difference between red and blue to within $\pm 10 \mu m$.

Adjust the green of 5 and 7 to within $\pm 10 \mu m$, and red and blue to within $\pm 7 \mu m$ of green, and the difference between red and blue to within $\pm 10 \mu m$.

(Set each corner to 1st frame of the crosshatch.)

10. For the up/down and left/right swing, swing the DY and insert a wedge so that the up and down pins are equal at the top and bottom and the horizontal trapezoid is equal at the left and right. Insert the wedge firmly so that the DY does not shake.
11. Check the landing of each corner, and if they do not satisfy the specification, paste a Disk-Mg onto the funnel and adjust.

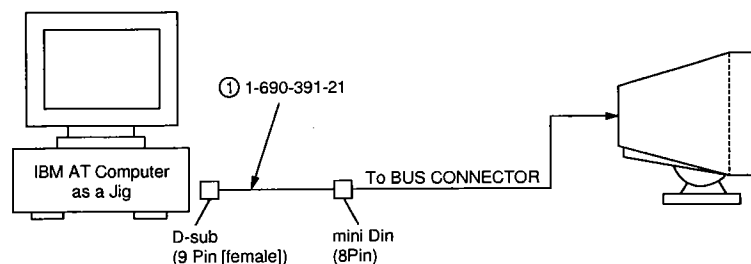
Note:

- (1) Do not paste more than 2 magnets to one corner.
 - (2) Paste within 80 to 100 mm from the DY on the diagonal line of the magnet.
 - (3) If using the magnet, be sure to demagnetize with the hand degausser and check.
 - (4) If the specification cannot be satisfied though the adjustment of 11 was made, the following adjustment may be made.
 - a) Adjust the "LCC xx" register that corresponds to the part to be adjusted. (See the following figure)
- Note : "LCC NS" =108~148
except for "LCC NS"=114~142
b) Execute the service saving.

"LCC LT"	"LCC NS"	"LCC RT"
"LCC LB"	"LCC NS"	"LCC RB"

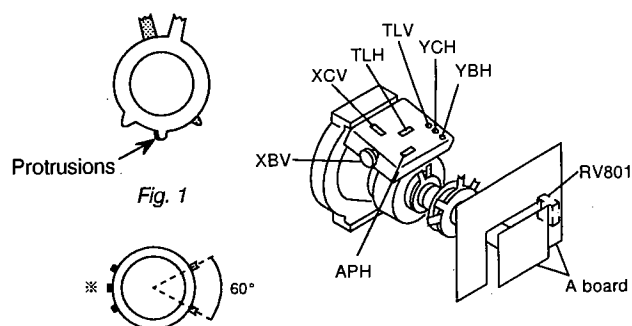
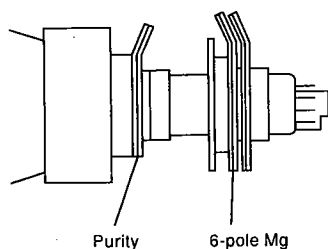
- (5) If performing a manual degaussing after adjustment of "LCC xx", set "LCC xx" to 128 (of "LCC SW" to 0).
(After degaussing, return the adjustment value to original value.)
12. Remove the sensor and wobbling coil.
13. Switch the signal to R.G.B., and check that each color is pure.
14. Check that the DY is not tilting, and fix the purity Mg with a white pen.

Run the service software and then follow the instruction.



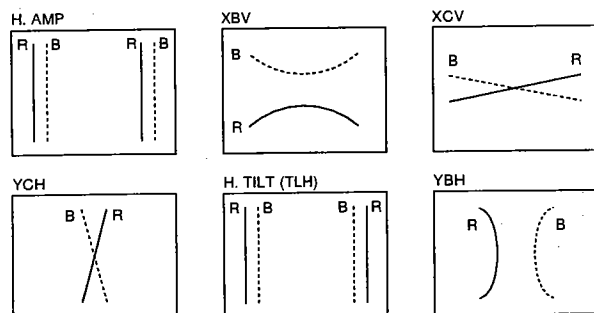
● Convergence Rough Adjustment

- (1) Receive an image of the white crosshatch signals (white lines on black).
- (2) Place the protrusions of the 6-fold poles magnet attached to the CRT neck upon each other.
- (3) Make rough adjustment of the H direction convergence by using "H. STAT VR (left side of the video block)".
- (4) Make a rough adjustment of the V direction convergence by using "V. STAT".

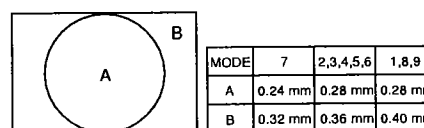


- ※ Set so that the protruding parts of the 2 magnet rings agree with each other.

Fig. 3



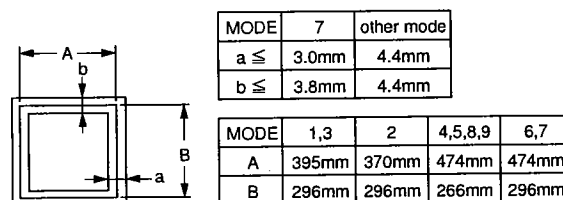
● Convergence Specification



● White Balance Adjustment Specification

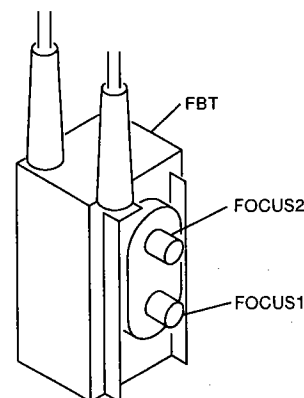
- (1) 9300K
 $x = 0.283 \pm 0.008$
 $y = 0.298 \pm 0.008$
- (2) 6500K
 $x = 0.313 \pm 0.008$
 $y = 0.329 \pm 0.008$
- (3) 5000K
 $x = 0.346 \pm 0.008$
 $y = 0.359 \pm 0.008$

● Vertical and Horizontal Position and Size Specification



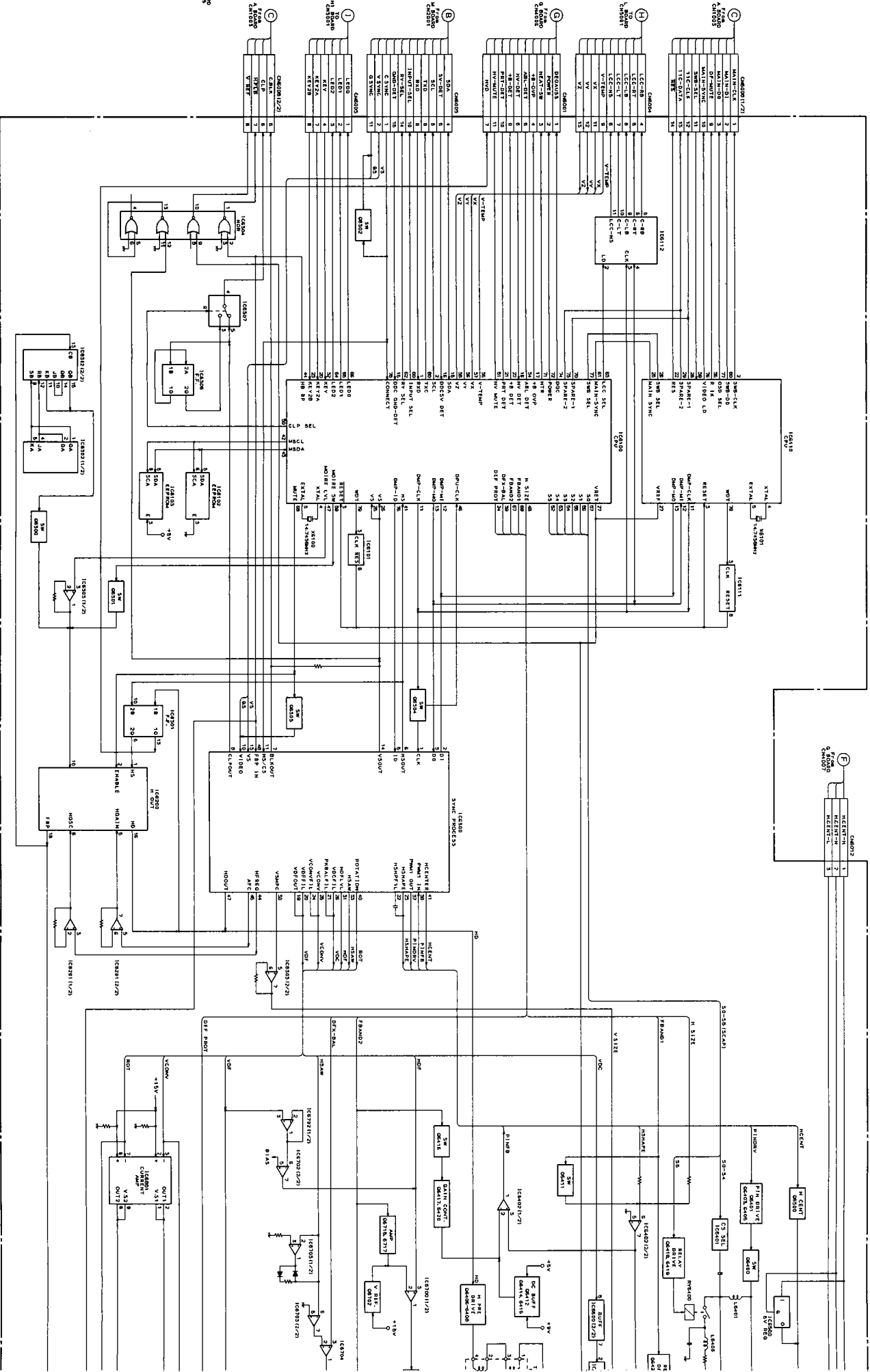
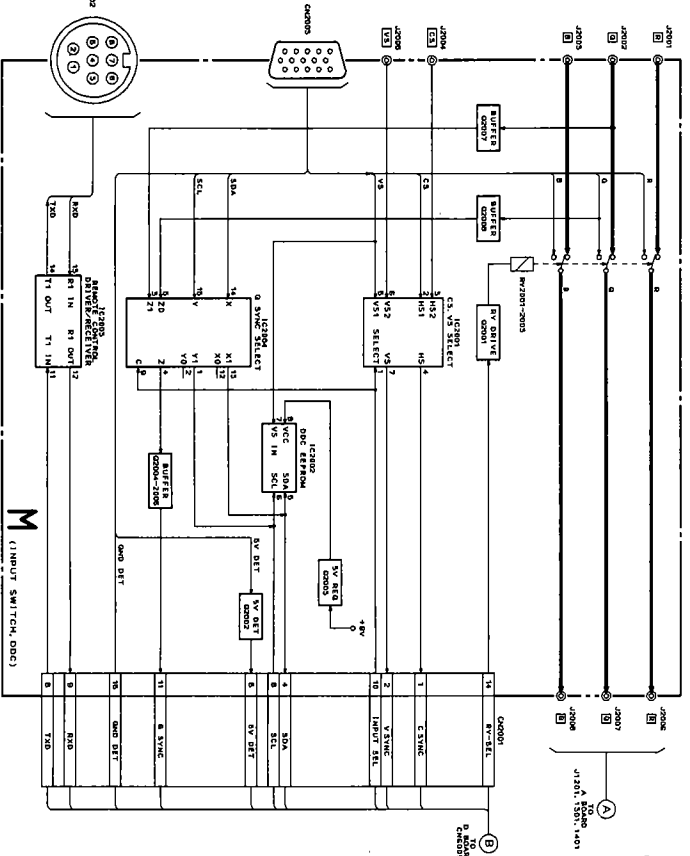
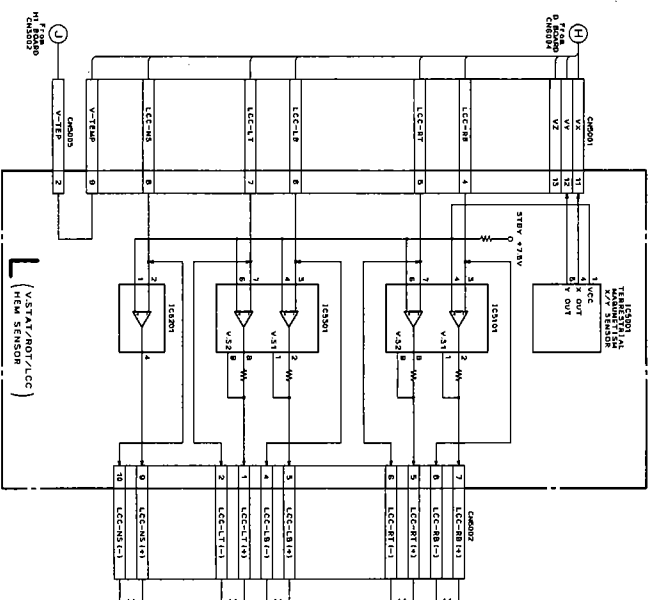
- **Focus adjustment**

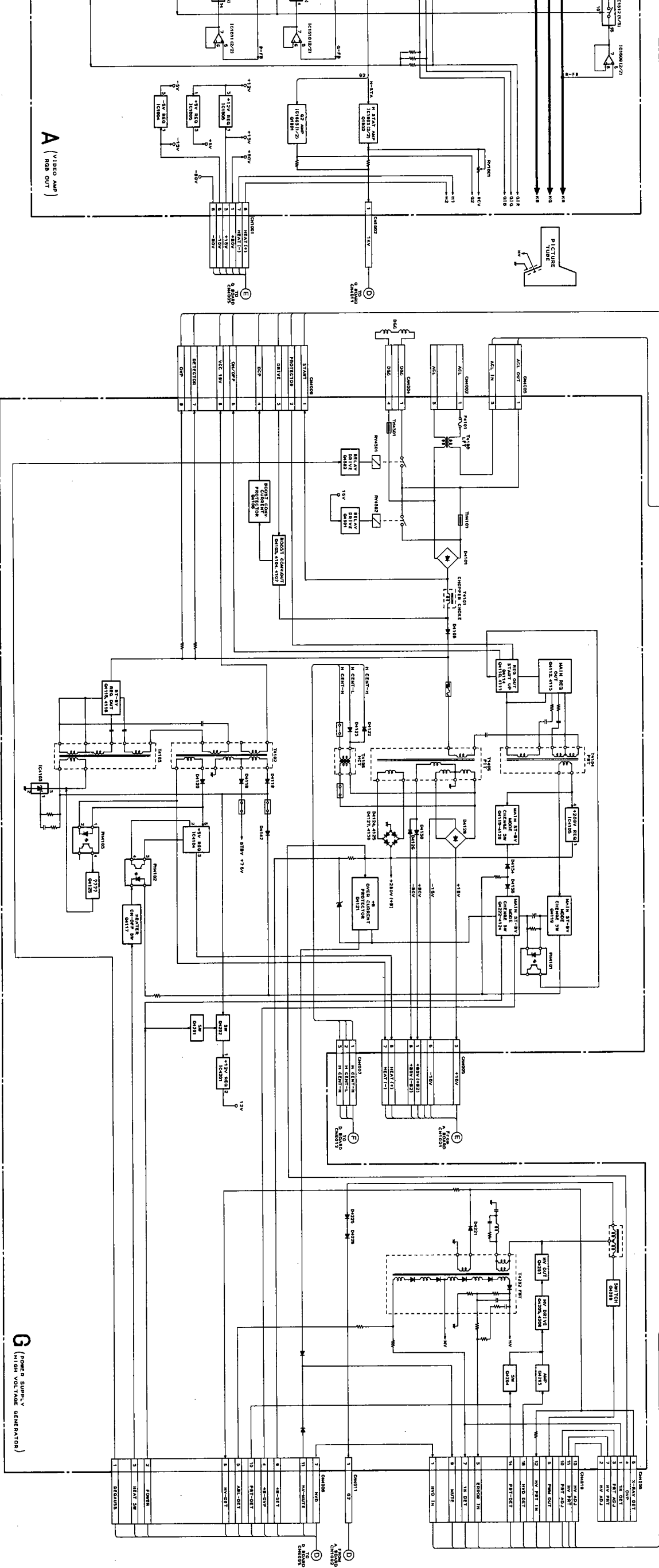
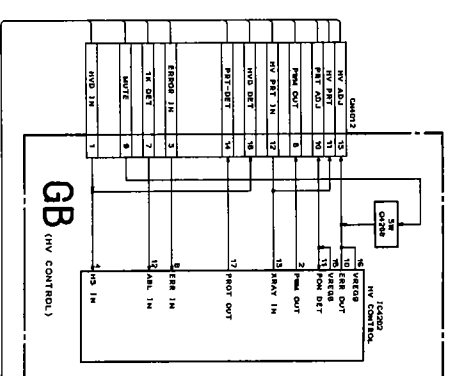
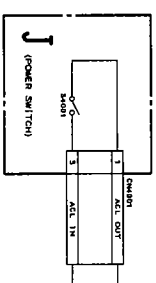
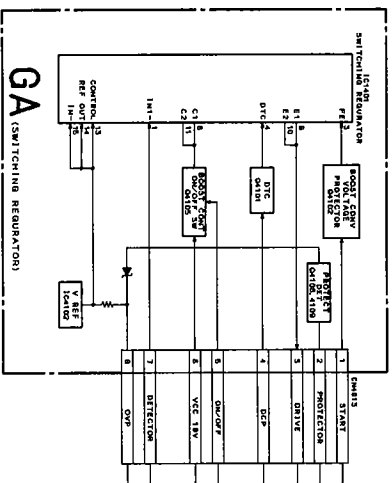
Focus adjustment
Adjust the focus volume 1 and 2 for the optimum focus.

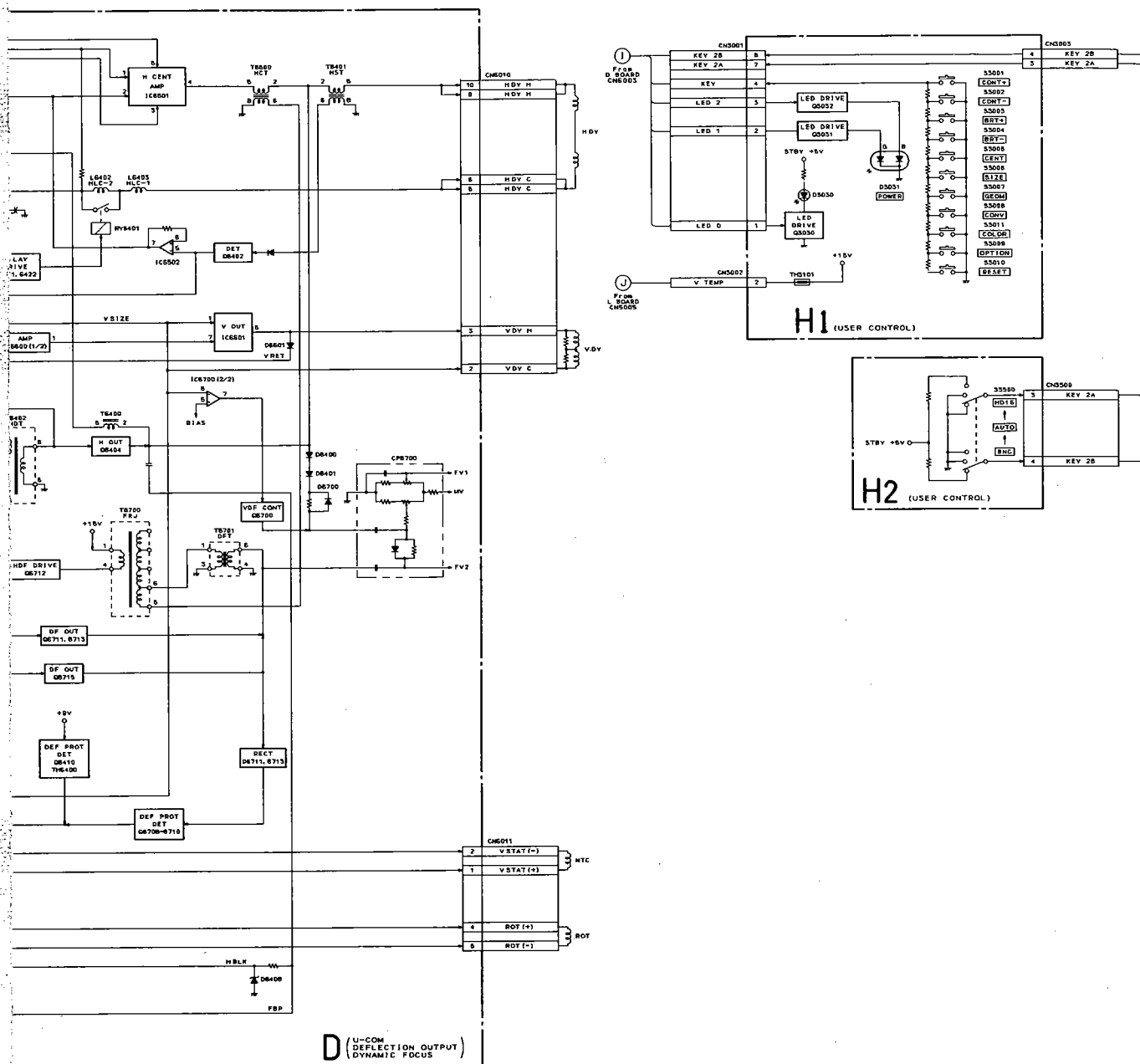


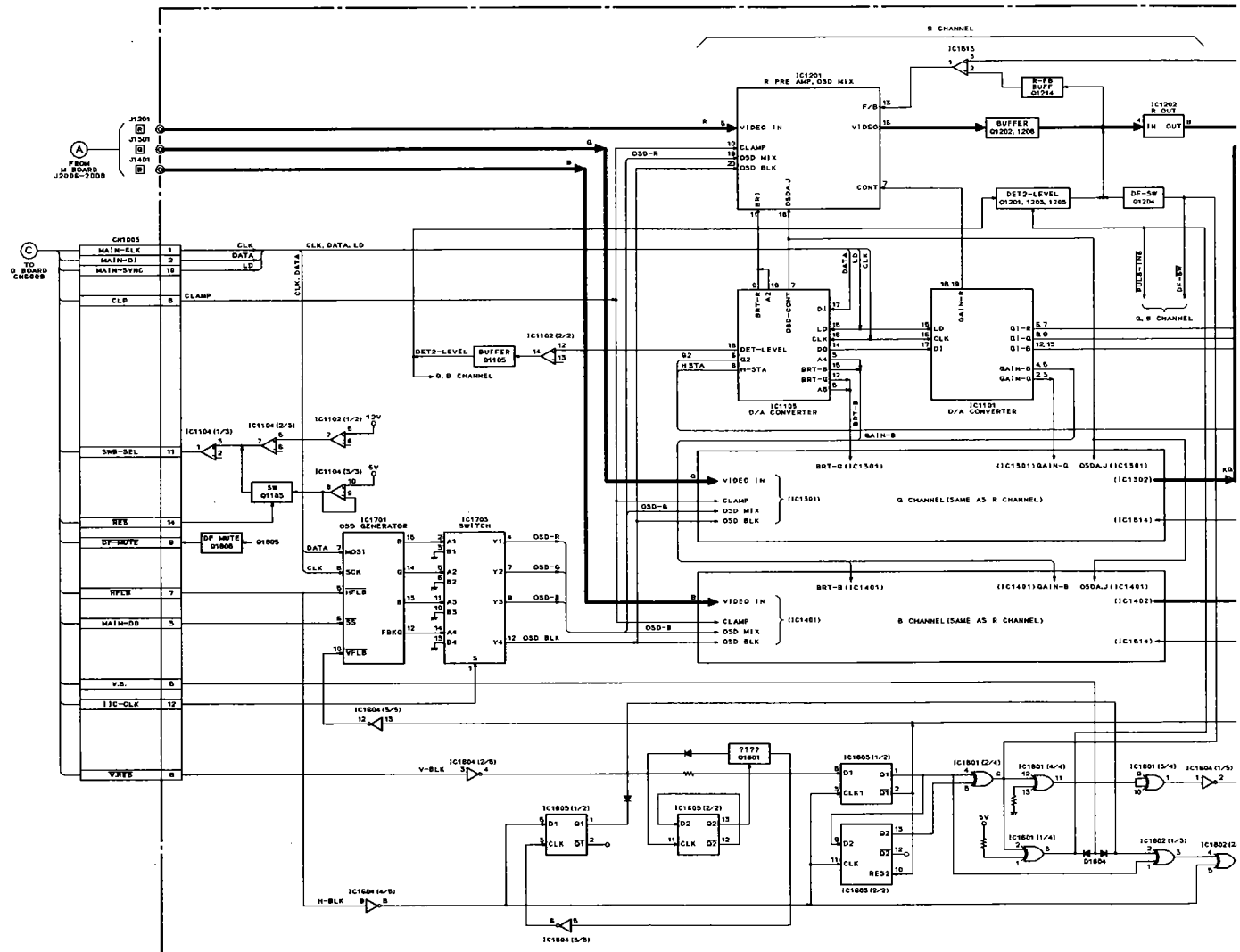
SECTION 5 DIAGRAMS

BLOCK DIAGRAMS

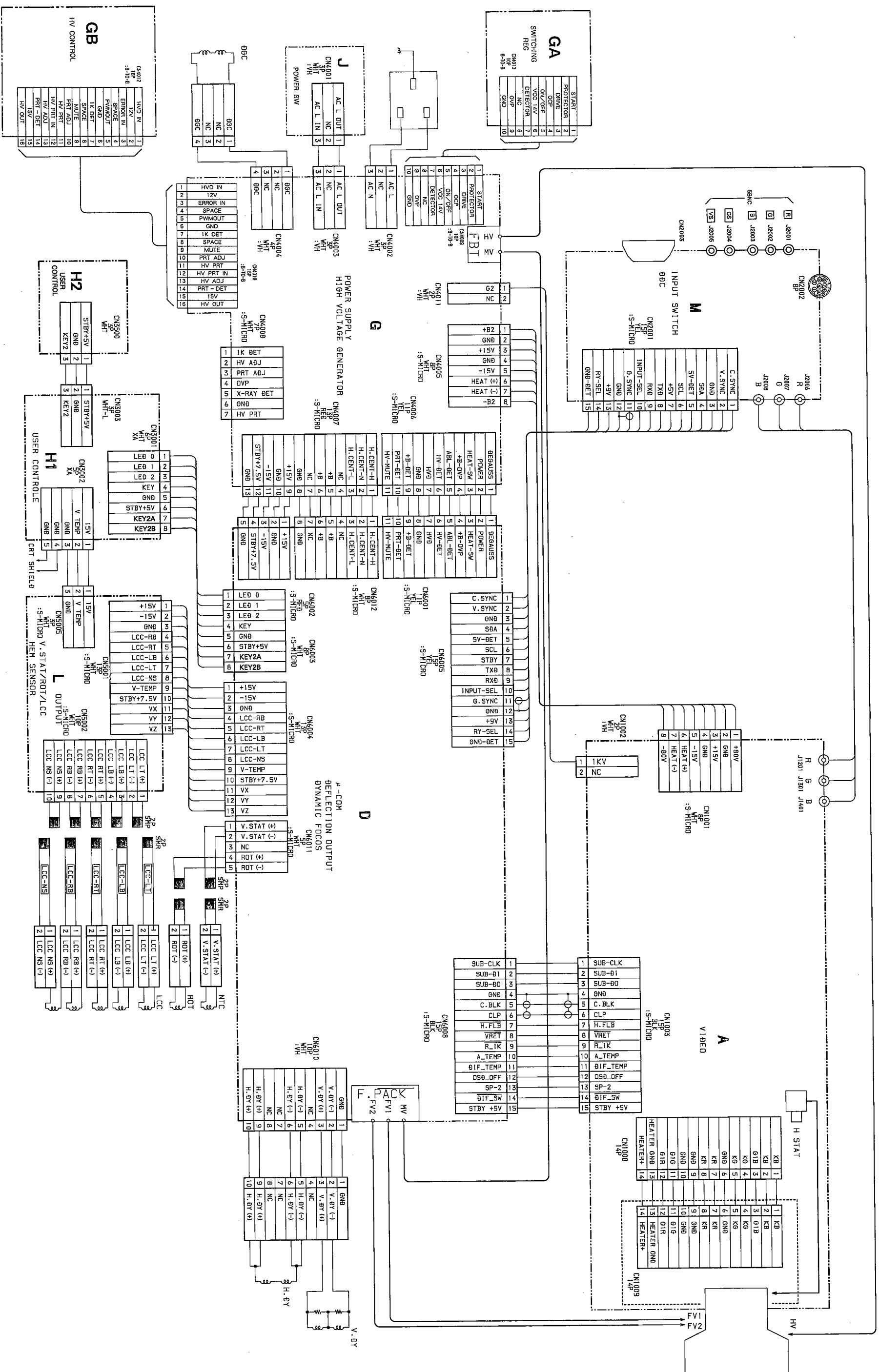








5-2. FRAME SCHEMATIC DIAGRAM





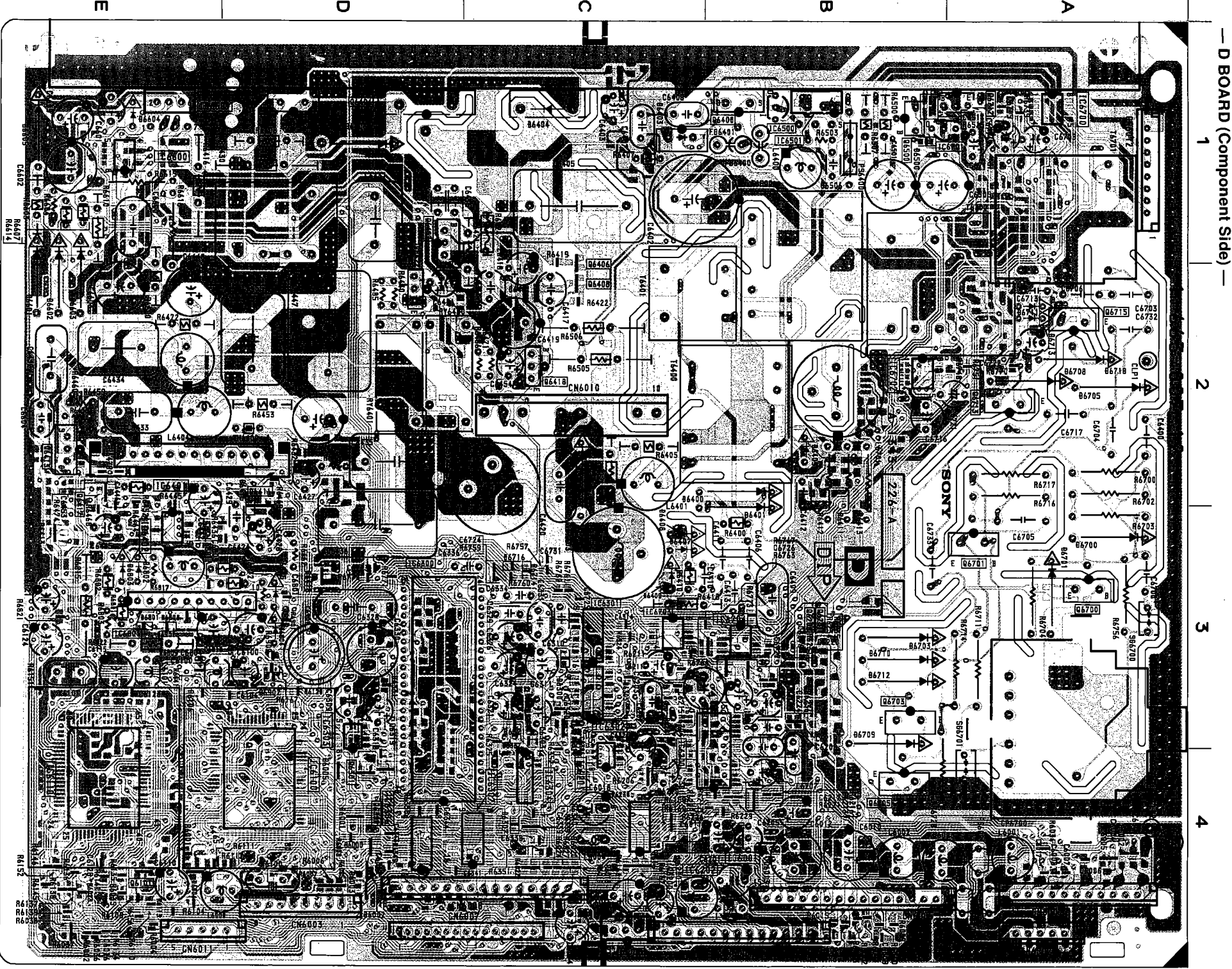
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

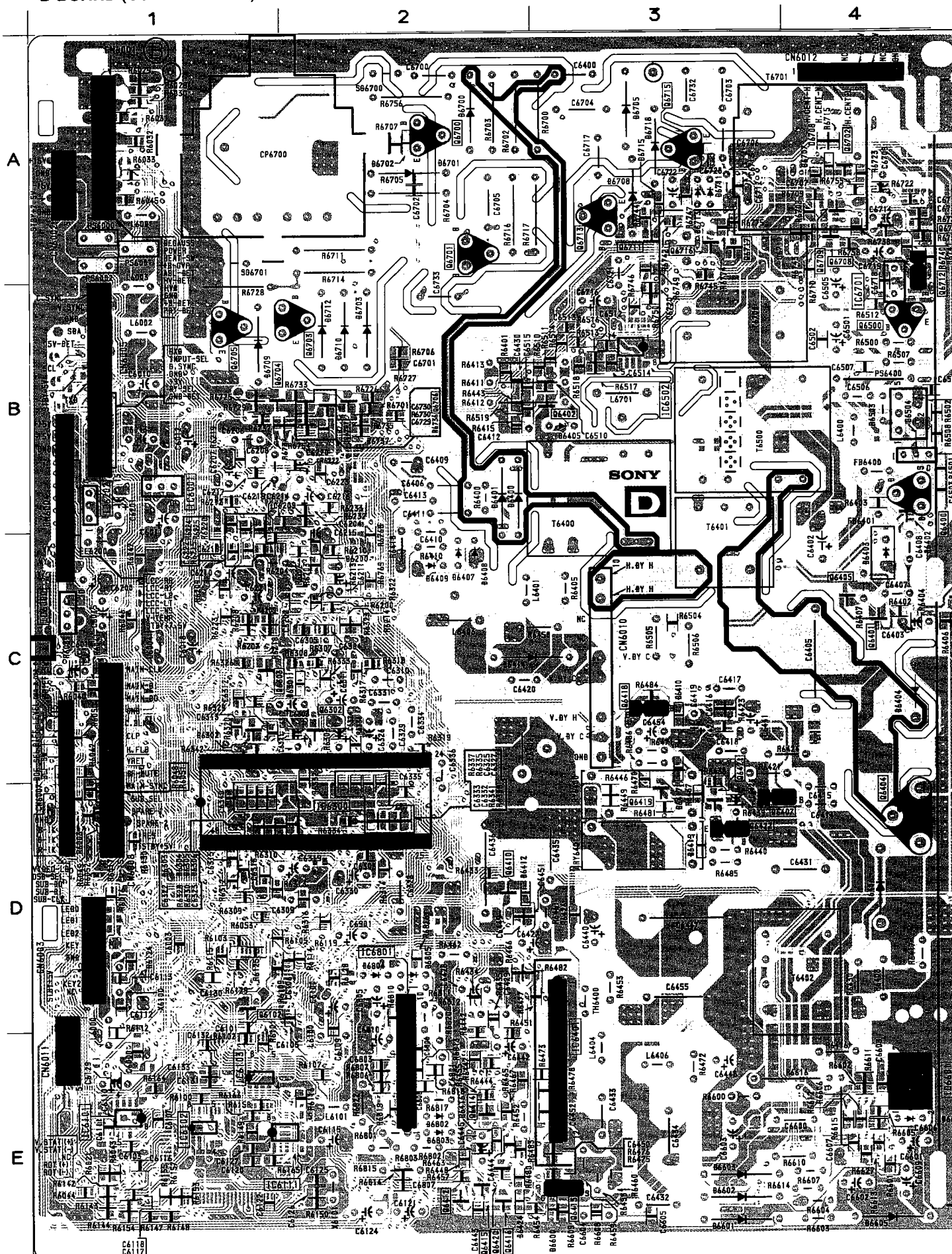
D BOARD SEMICONDUCTOR LOCATION

IC	(Conductor) (Component)		DIODE	(Conductor) (Component)	
	Site	Site		Site	Site
IC6000	C-1	B-4	D6000	D-4	③
IC6001	B-1	B-4	D6001	D-4	③
IC6100	B-1	D-4	D6002	D-4	③
IC6101	E-1		D6003	D-4	③
IC6102	E-1		D6004	D-4	③
IC6103	E-1		D6005	D-4	③
IC6110	E-1		D6200	C-2	③
IC6111	E-1		D6300	C-3	③
IC6112	E-1		D6301	C-2	③
IC6200	B-3	C-4	D6302	C-1	③
IC6201	C-4	C-4	D6303	C-1	③
IC6202	B-1	B-4	D6304	D-1	③
IC6300	D-2	D-2	D6305	D-1	③
IC6301	C-3	C-3	D6400	B-2	③
IC6302	C-3	C-3	D6401	B-2	③
IC6303	D-3	D-3	D6402	B-2	③
IC6304	C-4	C-4	D6403	C-1	③
IC6306	D-4	D-4	D6404	C-4	③
IC6307	C-4	C-4	D6405	B-3	③
IC6401	E-3	E-3	D6406	D-4	③
IC6402	B-4	B-1	D6407	C-2	③
IC6500	B-4	B-1	D6408	C-2	③
IC6501	B-1	B-1	D6409	C-3	③
IC6502	B-3	E-1	D6410	D-2	③
IC6600	E-1	E-1	D6412	E-3	③
IC6601	E-4	E-1	D6413	C-2	③
IC6700	A-1	A-1	D6414	D-2	③
IC6701	B-1	B-2	D6415	E-2	③
IC6702	B-2	C-3	D6416	E-2	③
IC6703	C-3	C-3	D6417	D-3	③
IC6704	B-3	C-3	D6418	D-3	③
IC6801	E-2	E-3	D6419	D-3	③
TRANSISTOR					
	(Conductor) (Component)				
	Site Site				
Q6200	B-3	③	D6424	E-2	③
Q6201	B-3	③	D6500	B-1	③
Q6300	D-4	③	D6600	E-3	③
Q6301	D-4	③	D6601	E-3	③
Q6400	C-2	③	D6602	E-2	③
Q6401	B-4	③	D6603	E-3	③
Q6402	B-3	③	D6604	E-4	③
Q6403	C-4	③	D6700	A-3	③
Q6404	D-4	③	D6701	A-2	③
Q6405	C-4	③	D6702	A-4	③
Q6406	C-1	③	D6707	A-4	③
Q6407	D-3	③	D6711	A-3	③
Q6408	D-2	③	D6713	A-3	③
Q6410	D-2	③	D6714	A-3	③
Q6411	E-2	③	D6715	A-3	③
Q6412	E-3	③	D6716	A-3	③
Q6413	E-3	③	D6801	E-3	③
Q6414	E-3	③	D6802	E-2	③
Q6415	E-3	③	D6803	E-3	③
Q6416	E-3	③	D6804	D-2	③
Q6417	E-2	③	D6805	D-3	③
Q6418	C-3	③	D6901	D-3	③
Q6419	C-3	③	D6902	D-3	③
Q6420	E-3	③	CRYSTAL		
Q6421	D-3	③			
Q6422	D-3	③			
Q6500	B-4	③			
Q6702	A-4	③			
Q6708	A-4	③			
Q6709	A-4	③			
Q6710	A-4	③			
Q6711	A-3	③			
Q6712	A-4	③			

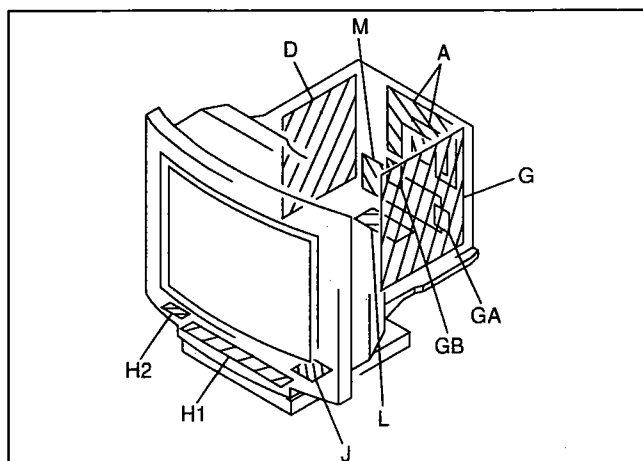
D BOARD Terminal name of semiconductor in silk screen printed circuit (*)

Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
② Transistor		Base Collector Base Emitter	
③ Diode		Cathode Anode	
④ Diode		Common Anode Cathode	
⑤ Diode		Common Anode Cathode	
⑥ Diode		Common Anode Cathode	
⑦ Diode		Anode Cathode Anode Anode	
⑧ Diode		Anode Cathode Anode Cathode	
⑨ Transistor (FET)		Drain Gate Source	
⑩ Transistor (FET)		Drain Gate Source	
⑪ Discrete semiconductor		Gate Source	





5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 V or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- Circled numbers are waveform references.
- : B + bus.
- : B - bus.
- When replacing components identified by , make the necessary adjustments indicated. (See page 20)
- When replacing the part in below table, be sure to perform the related adjustment.

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

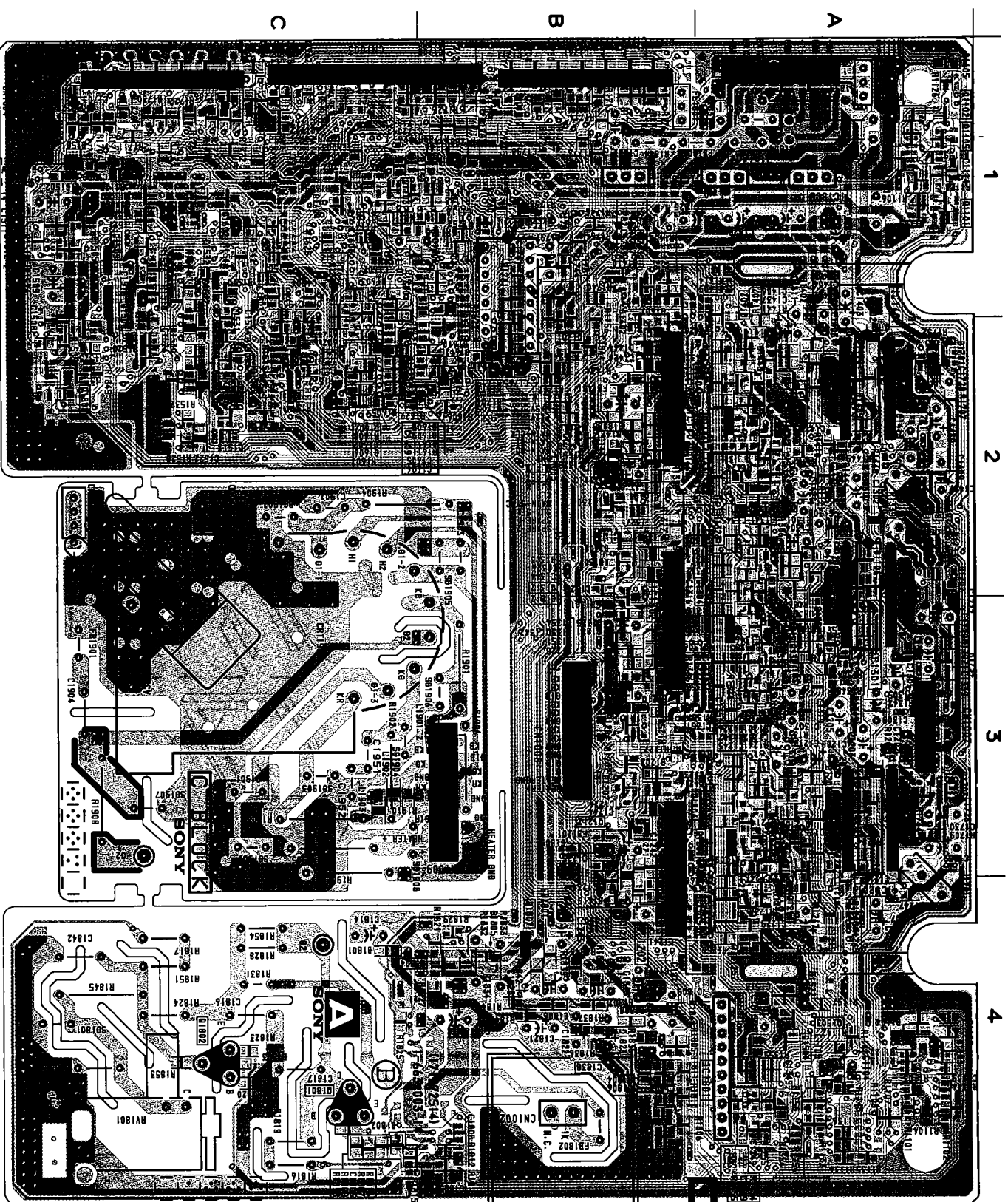
Note: Les composants identifiés par un tramé et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

	Part replaced ()	
HV Regulator Circuit Check	GB board	IC4202 • Mounted GB board
HV Hold-Down Circuit Check	G board	D4220 • Mounted G board • Mounted GB board
Beam Current Protector#1 Circuit Check	G board	D4220,R4211,R4212,R4216,R4219 D4204,D4206 • Mounted G board
	GB board	IC4202 • Mounted GB board
Beam Current Protector#2 Circuit Check	G board	R4222,R4223 • Mounted G board • Mounted GB board
Voltage of 3rd winding of FBT	G board	T4202(FBT) • Mounted G board

— A BOARD (Conductor Side) —



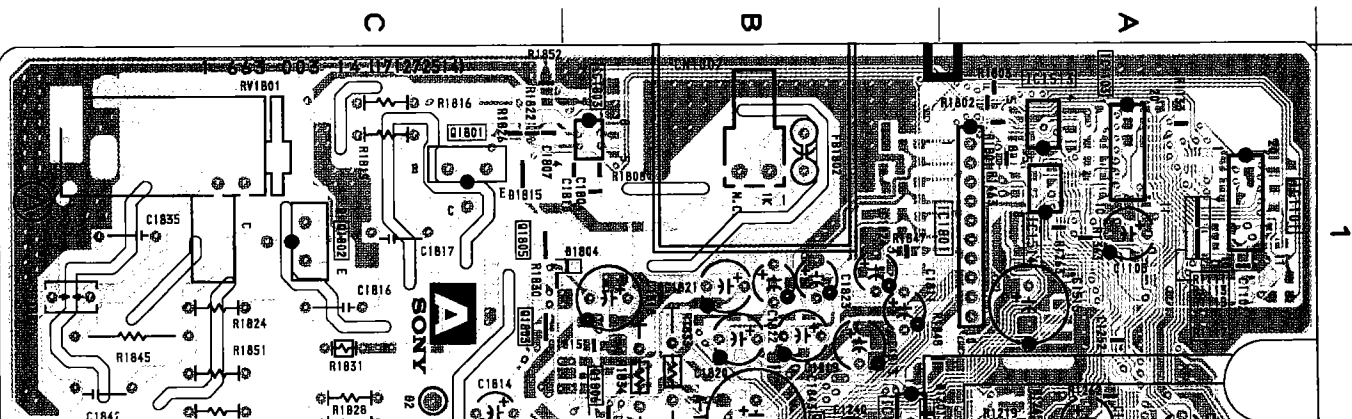
A VIDEO AMP
RGB OUT

● A BOARD SEMICONDUCTOR LOCATION

IC		DIODE	
(Conductor Side)	(Component Side)	(Conductor Side)	(Component Side)
IC1101	A-1	Q1801	C-4
IC1102	A-4	Q1802	C-4
IC1103	A-1	Q1803	C-1
IC1104	B-4	Q1804	B-4
IC1201	A-2	Q1805	C-1
IC1202	B-4	Q1806	B-1
IC1301	A-3	Q1807	C-2
IC1302	B-3		
IC1401	A-2		
IC1402	B-2		
IC1503	C-4		
IC1509	C-3		
IC1510	C-4		
IC1511	C-4		
IC1512	A-1		
IC1513	A-1		
IC1601	C-3		
IC1602	C-4		
IC1603	B-4		
IC1604	C-4		
IC1605	B-4		
IC1606	B-3		
IC1701	B-4		
IC1703	B-4		
IC1801	A-1		
IC1803	B-1		
IC1804	A-1		
IC1805	A-1		
IC1806	B-4		

TRANSISTOR		VARIABLE RESISTOR	
(Conductor Side)	(Component Side)	(Conductor Side)	(Component Side)
Q1103	C-1	D1103	A-4
Q1105	A-1	D1104	A-4
Q1201	A-2	D1106	A-2
Q1202	A-3	D1107	A-4
Q1203	A-2	D1108	C-1
Q1204	A-3	D1201	A-3
Q1205	A-2	D1209	B-2
Q1206	A-3	D1301	A-3
Q1214	A-3	D1309	A-3
Q1215	A-3	D1401	A-2
Q1301	A-3	D1409	A-2
Q1302	A-2	D1503	C-2
Q1303	A-3	D1509	C-1
Q1304	A-2	D1510	C-2
Q1305	A-3	D1602	C-1
Q1306	A-2	D1603	C-1
Q1314	A-2	D1604	C-1
Q1315	A-4	D1606	C-2
Q1401	A-4	D1607	C-2
Q1402	A-2	D1610	B-2
Q1403	A-3	D1611	C-2
Q1404	A-2	D1612	B-2
Q1405	A-3	D1613	C-4
Q1406	A-2		
Q1414	A-2		
Q1415	C-1		
Q1505	C-1		
Q1601	B-2		
Q1701	B-2		

— A BOARD (Component Side) —



- Pattern from the side which enables seeing.
- Pattern of the rear side.

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

A BOARD Terminal name of semiconductor in silk screen printed circuit (*)

Device	Printed symbol	Terminal name	Circuit	Device	Printed symbol	Terminal name	Circuit
① Transistor	T	Collector Base Emitter		⑥ Diode	—	Cathode Anode	
② Transistor	T	Collector Base Emitter		⑦ Diode	—	Anode Cathode	
③ Transistor	T	Emitter Collector Base		⑧ Transistor (FET)	T	Drain Gate Source	
④ Diode	F	Cathode Anode		⑨ Transistor (FET)	—	Gate Source	
⑤ Diode	T	Common Anode Cathode					

SECTION 6

EXPLODED VIEWS

NOTE:

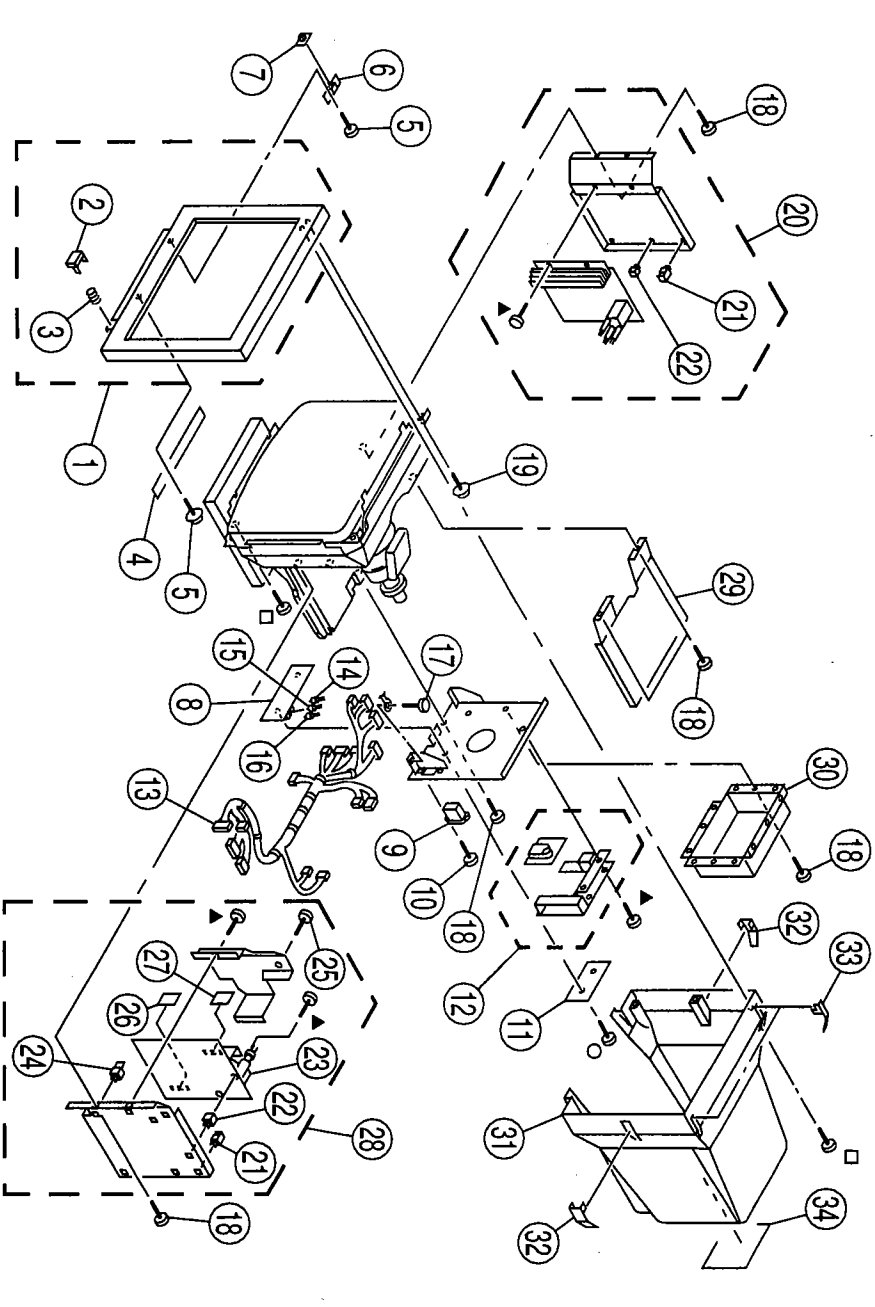
- Items with no part number and no description are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CHASSIS

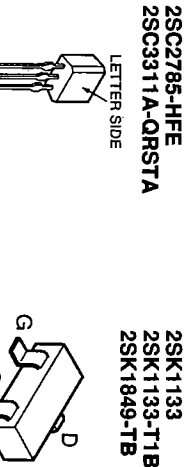
- ▲ 7-685-647-79 +BVTP 3X10
 - 7-685-663-71 +BVTP 4X16
 - 7-682-548-04 +-BV TAPPING SCREW M3X8

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

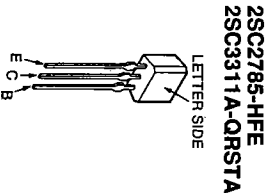
Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



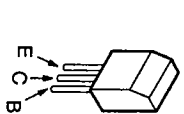
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4033-919-1	BEZEL ASSY	2, 3	19	4-046-765-01	SCREW, TAPPING	
2	4-055-556-01	BUTTON, POWER		20	* 8-933-213-00	DEFLECTION MCB ASSY (ID BLOCK ASSY)	21, 22
3	4-042-593-01	SPRING, COMPRESSION		21	* 3-701-903-11	HOLDER, PC BOARD	
4	* 8-933-217-00	CONTROL BLOCK BOARD (H1 BOARD, COMPLETE)		22	* 4-382-848-01	HOLDER, PCB	
5	4-029-432-01	SCREW (3X12), (+) BVWHTP		23	Δ X-4034-094-1	TRANSFORMER ASSY, FLYBACK (NX-4202/L1D4)	
6	* 8-933-218-00	INPUT SW BOARD (H2 BOARD, COMPLETE)		24	* 3-703-141-00	HOLDER, PCB	
7	4-055-558-01	COVER, SLIDE SWITCH		25	4-382-854-11	SCREW (M3X10), P. SW (+)	
8	* 8-933-216-00	M BOARD, COMPLETE		26	Δ * 8-933-220-00	POWER BLOCK MCB (GA BOARD, COMPLETE)	
9	Δ 1-251-382-12	INLET, AC 3P (WITH NOISE FILTER)		27	Δ * 8-933-221-00	POWER BLOCK MCB (GB BOARD, COMPLETE)	
10	4-052-345-01	SCREW, (3X8) (+K), TAPPING		28	Δ * 8-933-219-00	POWER BLOCK ASSY (G BLOCK ASSY)	21, 27
11	4-055-730-01	LABEL, CONNECTOR		29	* 4-055-732-01	COVER, TOP	
12	* 8-933-200-00	VIDEO AMP MCB ASSY (A BOARD, COMPLETE)		30	* 4-055-731-01	SHIELD, VIDEO	
13	1-900-215-90	CONNECTOR ASSY		31	4-055-559-01	CABINET	
14	* 1-777-729-31	CABLE, COAXIAL (B)		32	4-055-563-01	COVER (S), SCREW	
15	* 1-777-729-21	CABLE, COAXIAL (G)		33	4-055-562-01	COVER (T), SCREW	
16	* 1-777-729-11	CABLE, COAXIAL (R)		34	* 4-055-595-01	LABEL, INFORMATION	
17	4-389-025-01	SCREW (MM) (EXT TOOTH WASHER)					
18	4-381-962-11	SCREW (MAX8), TAPPING, (+-) (BV)					



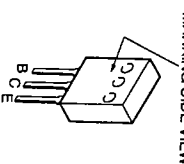
2SK1133
2SK1133-T1B
2SK1849-TB



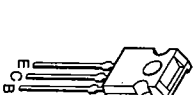
2SC2785-HFE
2SC3311A-QRSTA
2SD774-T3
2SD774-34



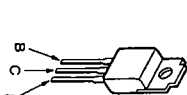
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2SD774-T3
2SD774-34



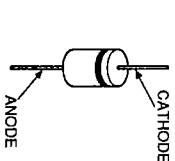
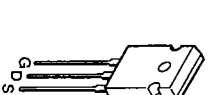
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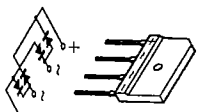
2SC4833MNP



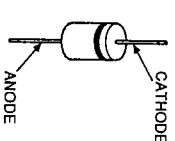
2SC4913



D1NS4-TR2
ERA34-10
EGP20G
GP08D
GP08DPKG23
RD2-2M-B
RGP02-17EL-6433
RGP02-17PKG23
RGP02-20EL-6394
RGP15GPKG23



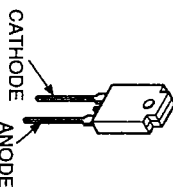
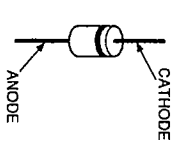
D10SBS4
D2L40-TA
D4SB60L



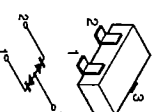
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D2S4MTA1
RGP02-20EG23



D5L60



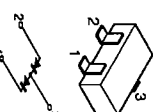
ERC90M-03



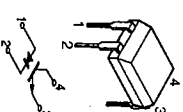
MA151WA-TX
1S2835-T1
1S2836



MA151WK-TX
1SS184



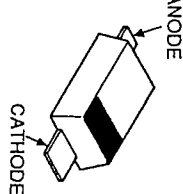
MA153-TX
MA157-TX
1SS226



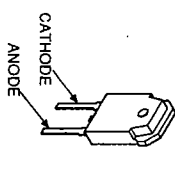
PC123F2
PC123FV2
PS2501-1-L
PS2561L1-1-V



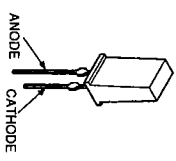
SB560



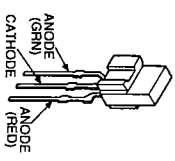
1SS376TE-17



5TUZ52



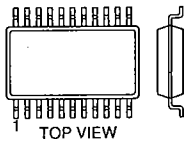
SEL1922D-C
SEL1922D-C,D



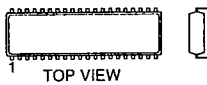
SPB-26MVWF

5-4. SEMICONDUCTORS

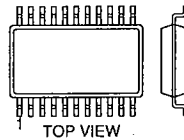
BA10324AF
LM324DR-E2
MC14013BF
MC74HC04AF
MC74HC32AF
SN74HC02ANS
SN74HC74ANS
SN74HC86ANS
TC74HC86AF
μPD74HC02G



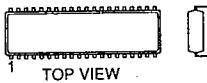
BU4053BCF
LSC4352P
TL494CN
XRU4053BCF



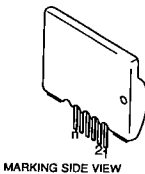
CXA1543M



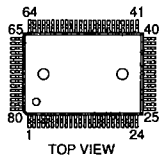
CXA1908S



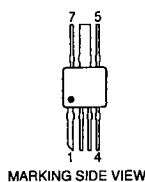
DM-60



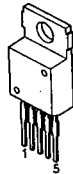
HD64733337WA04H
HD64733337YFP16



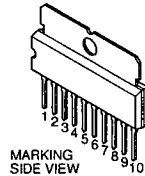
IRSY5305



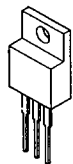
LA6500-FA
LA7890



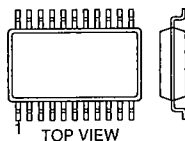
LA6510



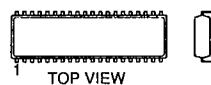
L7805CV
TA7805S
μPC7812AHF



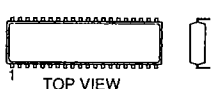
MAX232CWE
MC14027BF
MC74HC157AF
MC74HC4053F
SN74ALS157ANS
TC74HC123AF



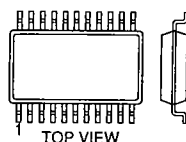
MM1170BFB



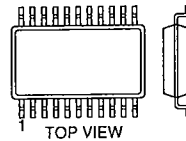
M52048SP



M62352FP
M62352FP-75ND
M62354FP



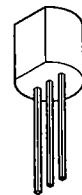
NJM4558M
ST24C08FM6TR
TL082CPS-E20
TL082M
μPC358G2
μPC393G2
μPC4082G2
μPC4558G2
24LC21T/SN



NJM78L05A
NJM78L09A
TA78L09S
μPC78L10J



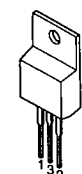
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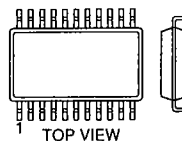
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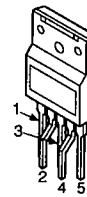
NJM79M05FA



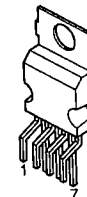
SBA9755S



SI-3050F



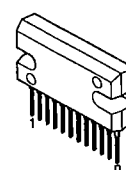
TD8172



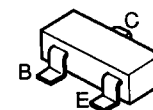
μPC1093J



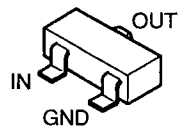
VP301



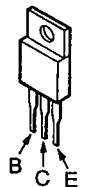
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DTA114GKAT146
DTA124EKA-T146
DTC114GKAT146
DTC124EKA-T146
2SA1036K-Q
2SA1036K-T-146-Q
2SA1037K-T-146-QR
2SA1162G
2SA1338-5-TA
2SA1338-5-TB
2SA1462-T1Y33Y34
2SA1462-Y33
2SC1621
2SC1621-T1B2B3
2SC1623-L5L6
2SC1623-T1-L5L6
2SC2411K-CQ
2SC2412K-T-146-QR
2SC2412K-T-146-S
2SC3545-T1T43T44
2SC3545-T43



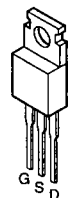
DTB143EK
DTB143EK-T-146



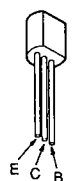
IRF19630GS
2SC3746
2SC4686A (LB SONY)
2SJ449



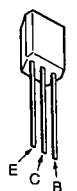
IRLI530G



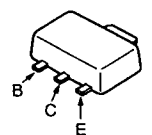
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2SC2458-YGR



2SC2780-NK
2SC2780-T1
2SC2954
2SC3357-T1HFE

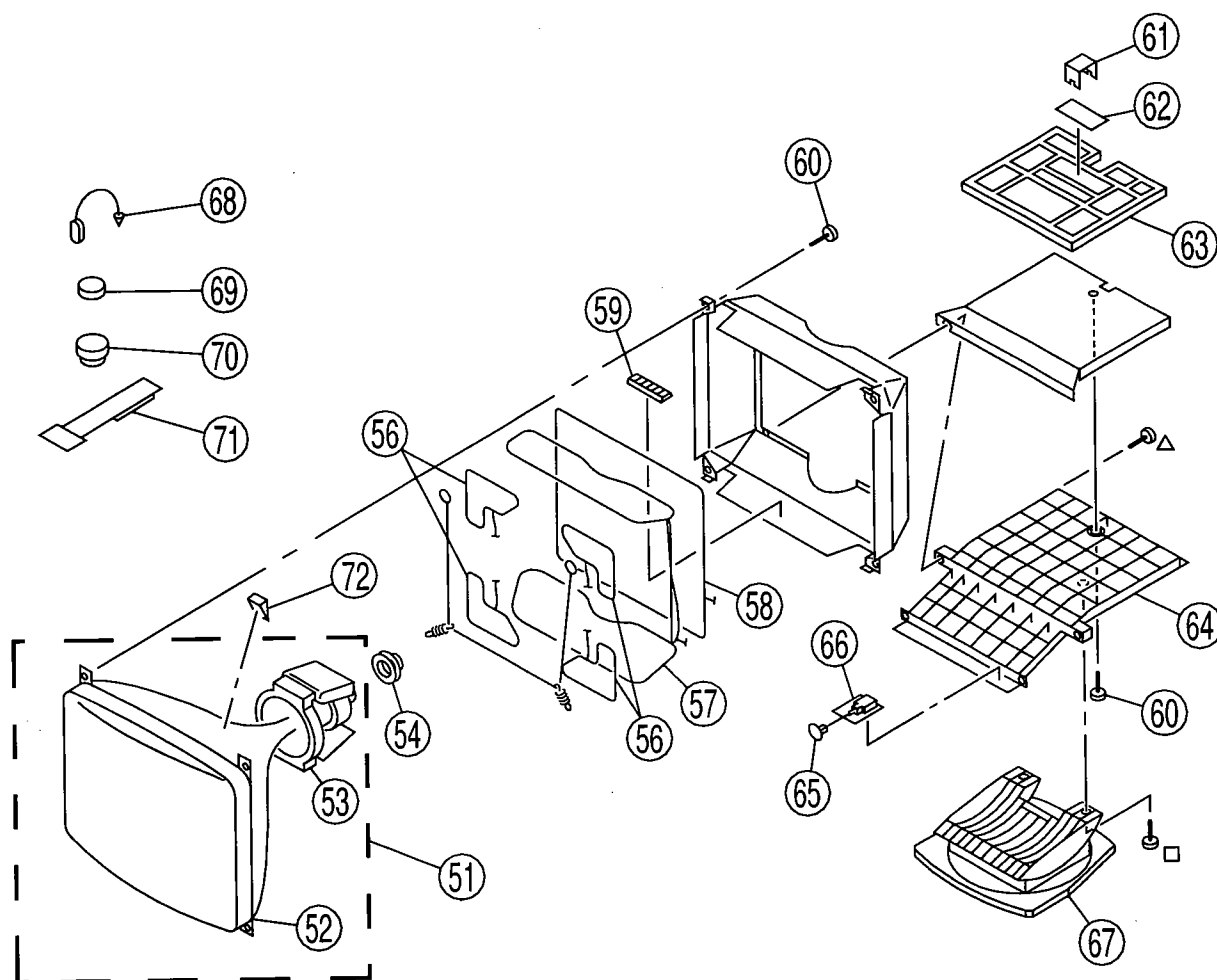


The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

6-2. PICTURE TUBE

- Δ 7-682-562-04 +BV TT 4X10
 $\square$ 7-685-663-71 +BVTP 4X16

Les composants identifiés par un tramé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	Δ 8-733-002-80	ITC ASSY (24FIF-R1)	52, 53	63	* 4-055-736-01	BRACKET, BOTTOM	
52	Δ 8-733-002-05	PICTURE TUBE (24FIF)		64	4-055-568-01	COVER, BOTTOM	
53	Δ 8-451-481-11	DEFLECTION YOKE (Y24FIK-M)		65	4-031-646-01	SHAFT	
54	Δ 8-453-013-11	NECK ASSY, PICTURE TUBE (NA298-M)		66	* 8-933-215-00	AC SW BOARD (J BOARD, COMPLETE)	
56	1-415-969-11	COIL, LANDING CORRECTION		67	X-4033-920-1	STAND ASSY	
57	Δ 1-415-970-11	COIL, DEGAUSS		68	4-308-870-00	CLIP, LEAD WIRE	
58	1-415-968-11	COIL, LANDING CORRECTION (NS)		69	1-452-032-00	MAGNET, DISK ; 10mm ϕ	
59	4-055-571-01	SUPPORT, CRT		70	1-452-094-00	MAGNET, ROTATABLE DISK ; 15mm ϕ	
60	4-381-962-11	SCREW (M4X8), TAPPING, (+-) (BV)		71	X-4030-584-1	PERMALLOY ASSY, CORRECTION	
61	* 4-055-760-01	SHIELD (L)		72	4-040-897-01	SPACER, DY	
62	* 8-933-214-00	LCC MCB (L BOARD, COMPLETE)					

SECTION 7

ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by $\square$ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

MF : μ F

COILS

MMH : mH

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
* 8-933-200-00	VIDEO AMP MCB ASSY (A BOARD, COMPLETE)			C1214	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
4-382-854-11	SCREW (M3X10), P, SW (+) (IC1202, IC1302, IC1402, IC1804, IC1805, IC1806)			C1217	1-216-174-00	METAL GLAZE 100	5% 1/8W
7-322-065-19	RUBBER, SILICON RTV (KE490W) (D1613)			C1218	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
<CAPACITOR>				C1219	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1101	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1220	1-126-804-11	ELECT 100MF	20% 35V
C1102	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1221	1-126-804-11	ELECT 100MF	20% 35V
C1103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1222	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C1104	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1223	1-126-402-11	ELECT CHIP 2.2MF	20% 50V
C1105	1-126-804-11	ELECT 100MF	20% 35V	C1224	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C1106	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1225	1-107-934-11	ELECT 220MF	20% 100V
C1107	1-163-237-11	CERAMIC CHIP 27pF	5% 50V	C1226	1-216-295-91	CONDUCTOR, CHIP	
C1108	1-163-237-11	CERAMIC CHIP 27pF	5% 50V	C1227	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1109	1-163-237-11	CERAMIC CHIP 27pF	5% 50V	C1228	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1110	1-136-173-00	FILM 0.47MF	5% 50V	C1230	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C1111	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1232	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C1112	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1233	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C1113	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1237	1-163-231-11	CERAMIC CHIP 15pF	5% 50V
C1114	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1239	1-107-929-11	ELECT 10MF	20% 50V
C1115	1-109-982-11	CERAMIC CHIP 1MF	10% 10V	C1240	1-107-929-11	ELECT 10MF	20% 50V
C1116	1-109-982-11	CERAMIC CHIP 1MF	10% 10V	C1241	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1117	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1242	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C1118	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1243	1-163-240-11	CERAMIC CHIP 36pF	5% 50V
C1119	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1244	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C1120	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1245	1-163-220-11	CERAMIC CHIP 3pF	0.25pF50V
C1201	1-126-401-11	ELECT CHIP 1MF	20% 50V	C1246	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1202	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	C1247	1-163-099-00	CERAMIC CHIP 18pF	5% 50V
C1203	1-107-929-11	ELECT 10MF	20% 50V	C1249	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C1204	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1250	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V
C1205	1-107-929-11	ELECT 10MF	20% 50V	C1251	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C1206	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1252	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1207	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1253	1-163-257-11	CERAMIC CHIP 180pF	5% 50V
C1208	1-107-909-11	ELECT 47MF	20% 35V	C1254	1-163-222-11	CERAMIC CHIP 5pF	0.25pF50V
C1209	1-107-909-11	ELECT 47MF	20% 35V	C1257	1-163-085-00	CERAMIC CHIP 2pF	0.25pF50V
C1210	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1301	1-126-401-11	ELECT CHIP 1MF	20% 50V
C1211	1-107-909-11	ELECT 47MF	20% 35V	C1302	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C1213	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1303	1-107-929-11	ELECT 10MF	20% 50V
				C1304	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1305	1-107-929-11	ELECT 10MF	20% 50V
				C1306	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C1307	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C1308	1-107-909-11	ELECT 47MF	20% 35V
				C1309	1-107-909-11	ELECT 47MF	20% 35V
				C1310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1311	1-107-909-11	ELECT 47MF	20% 35V	C1426	1-216-295-91	CONDUCTOR, CHIP	
C1313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1427	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1314	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1428	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1317	1-216-174-00	METAL GLAZE 100	5% 1/8W	C1430	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C1318	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1432	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C1319	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1433	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C1320	1-126-804-11	ELECT 100MF	20% 35V	C1437	1-163-092-00	CERAMIC CHIP 9pF	0.25pF 50V
C1321	1-126-804-11	ELECT 100MF	20% 35V	C1439	1-107-929-11	ELECT 10MF	20% 50V
C1322	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	C1440	1-107-929-11	ELECT 10MF	20% 50V
C1323	1-126-402-11	ELECT CHIP 2.2MF	20% 50V	C1441	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1324	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	C1442	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C1325	1-107-934-11	ELECT 220MF	20% 100V	C1443	1-163-240-11	CERAMIC CHIP 36pF	5% 50V
C1326	1-216-295-91	CONDUCTOR, CHIP		C1444	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C1327	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1445	1-163-220-11	CERAMIC CHIP 3pF	0.25pF 50V
C1328	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1446	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1330	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C1447	1-163-099-00	CERAMIC CHIP 18pF	5% 50V
C1332	1-163-121-00	CERAMIC CHIP 150pF	5% 50V	C1449	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C1333	1-163-121-00	CERAMIC CHIP 150pF	5% 50V	C1450	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V
C1337	1-163-231-11	CERAMIC CHIP 15pF	5% 50V	C1451	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C1339	1-107-929-11	ELECT 10MF	20% 50V	C1452	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1340	1-107-929-11	ELECT 10MF	20% 50V	C1453	1-163-257-11	CERAMIC CHIP 180pF	5% 50V
C1341	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1509	1-126-804-11	ELECT 100MF	20% 35V
C1342	1-163-251-11	CERAMIC CHIP 100pF	5% 50V	C1510	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1343	1-163-240-11	CERAMIC CHIP 36pF	5% 50V	C1511	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1344	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	C1513	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C1345	1-163-220-11	CERAMIC CHIP 3pF	0.25pF 50V	C1515	1-107-932-11	ELECT 47MF	20% 100V
C1346	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1516	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1347	1-163-099-00	CERAMIC CHIP 18pF	5% 50V	C1517	1-126-804-11	ELECT 100MF	20% 35V
C1349	1-163-243-11	CERAMIC CHIP 47pF	5% 50V	C1519	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1350	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V	C1520	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1351	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V	C1521	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C1352	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1522	1-164-298-11	CERAMIC CHIP 0.15MF	10% 25V
C1353	1-136-257-11	CERAMIC CHIP 180pF	5% 50V	C1523	1-164-298-11	CERAMIC CHIP 0.15MF	10% 25V
C1357	1-163-085-00	CERAMIC CHIP 2pF	0.25pF 50V	C1524	1-164-298-11	CERAMIC CHIP 0.15MF	10% 25V
C1401	1-126-401-11	ELECT CHIP 1MF	20% 50V	C1528	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1402	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	C1529	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1403	1-107-929-11	ELECT 10MF	20% 50V	C1530	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1404	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1531	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1405	1-107-929-11	ELECT 10MF	20% 50V	C1532	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1406	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1533	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C1407	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1534	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C1408	1-107-909-11	ELECT 47MF	20% 35V	C1601	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1409	1-107-909-11	ELECT 47MF	20% 35V	C1602	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1410	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1604	1-163-127-00	CERAMIC CHIP 270pF	5% 50V
C1411	1-107-909-11	ELECT 47MF	20% 35V	C1605	1-163-133-00	CERAMIC CHIP 470pF	5% 50V
C1413	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1606	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1414	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1607	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1417	1-216-174-00	METAL GLAZE 100	5% 1/8W	C1608	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C1418	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1609	1-163-129-00	CERAMIC CHIP 330pF	5% 50V
C1419	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1610	1-163-241-11	CERAMIC CHIP 39pF	5% 50V
C1420	1-126-804-11	ELECT 100MF	20% 35V	C1611	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C1421	1-126-804-11	ELECT 100MF	20% 35V	C1612	1-216-073-00	METAL GLAZE 10K	5% 1/10W
C1422	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	C1613	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C1423	1-126-402-11	ELECT CHIP 2.2MF	20% 50V	C1705	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1424	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	C1711	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1425	1-107-934-11	ELECT 220MF	20% 100V	C1717	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

A

Les composants identifiés par un tramé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D1803	8-719-404-49	DIODE MA111		IC1703	8-759-032-41	IC MC74HC157AF	
D1804	8-719-404-49	DIODE MA111		IC1801	8-759-347-17	IC LA7890	
D1805	8-719-404-49	DIODE MA111		IC1803	8-759-100-96	IC UPC4558G2	
D1806	8-719-052-12	DIODE 1SS376TE-17		IC1804	8-759-701-65	IC NJM79M05FA	
D1807	8-719-052-12	DIODE 1SS376TE-17		IC1805	8-759-088-08	IC UPC7812AHF	
D1808	8-719-052-12	DIODE 1SS376TE-17		IC1806	8-759-231-53	IC TA7805S	
D1809	8-719-052-12	DIODE 1SS376TE-17		<JACK>			
D1810	8-719-052-12	DIODE 1SS376TE-17		J1201	* 1-568-547-11	JACK, MINIATUER PIN	
D1811	8-719-052-12	DIODE 1SS376TE-17		J1301	* 1-568-547-11	JACK, MINIATUER PIN	
D1812	8-719-052-12	DIODE 1SS376TE-17		J1401	* 1-568-547-11	JACK, MINIATUER PIN	
D1813	8-719-052-12	DIODE 1SS376TE-17		<COIL>			
D1814	8-719-052-12	DIODE 1SS376TE-17		L1203	1-412-735-11	INDUCTOR 82UH	
D1815	8-719-801-78	DIODE 1SS184		L1303	1-412-735-11	INDUCTOR 82UH	
<FERRITE BEAD>				L1403	1-412-735-11	INDUCTOR 82UH	
FB1201	1-412-363-21	INDUCTOR	0UH	L1901	1-410-180-51	INDUCTOR CHIP	0.1UH
FB1301	1-412-363-21	INDUCTOR	0UH	L1902	1-410-180-51	INDUCTOR CHIP	0.12UH
FB1401	1-412-363-21	INDUCTOR	0UH	L1903	1-410-180-51	INDUCTOR CHIP	0.12UH
FB1801	1-412-390-21	INDUCTOR CHIP	0UH	<IC LINK>			
FB1802	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH	PS1801	Δ 1-533-590-31	LINK, IC 1A/90V AC, 60V DC	
FB1803	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH	PS1802	Δ 1-533-590-31	LINK, IC 1A/90V AC, 60V DC	
FB1804	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH	PS1803	Δ 1-532-841-21	LINK, IC 1.6A/90V AC, 60V DC	
FB1901	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH	<TRANSISTOR>			
<FILTER>				Q1103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL1801	1-236-164-11	ENCAPSULATED COMPONENT		Q1105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL1802	1-236-164-11	ENCAPSULATED COMPONENT		Q1201	8-729-112-65	TRANSISTOR 2SA1462-Y33	
<IC>				Q1202	8-729-112-65	TRANSISTOR 2SA1462-Y33	
IC1101	8-759-044-65	IC M62352FP		Q1203	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1102	8-759-060-00	IC BA10324AF		Q1204	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1103	8-759-044-65	IC M62352FP		Q1205	8-729-107-31	TRANSISTOR 2SC3545-T43	
IC1104	8-759-060-00	IC BA10324AF		Q1206	8-729-129-54	TRANSISTOR 2SC2954	
IC1201	8-759-399-68	IC M52048SP		Q1214	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1202	8-759-434-36	IC VP301		Q1215	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1301	8-759-399-68	IC M52048SP		Q1301	8-729-112-65	TRANSISTOR 2SA1462-Y33	
IC1302	8-759-434-36	IC VP301		Q1302	8-729-112-65	TRANSISTOR 2SA1462-Y33	
IC1401	8-759-399-68	IC M52048SP		Q1303	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1402	8-759-434-36	IC VP301		Q1304	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1503	8-759-981-48	IC TL082M		Q1305	8-729-107-31	TRANSISTOR 2SC3545-T43	
IC1509	8-759-981-48	IC TL082M		Q1306	8-729-129-54	TRANSISTOR 2SC2954	
IC1510	8-759-981-48	IC TL082M		Q1314	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1511	8-759-981-48	IC TL082M		Q1315	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1512	8-759-932-67	IC BU4053BCF		Q1401	8-729-112-65	TRANSISTOR 2SA1462-Y33	
IC1513	8-759-981-48	IC TL082M		Q1402	8-729-112-65	TRANSISTOR 2SA1462-Y33	
IC1514	8-759-981-48	IC TL082M		Q1403	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1601	8-759-239-23	IC TC74HC86AF		Q1404	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1602	8-759-032-20	IC MC74HC32AF		Q1405	8-729-107-31	TRANSISTOR 2SC3545-T43	
IC1603	8-759-008-82	IC MC14013BF		Q1406	8-729-129-54	TRANSISTOR 2SC2954	
IC1604	8-759-032-11	IC MC74HC04AF		Q1414	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1605	8-759-008-82	IC MC14013BF		Q1415	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1606	8-759-287-83	IC SN74HC74ANS-E20		Q1505	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1701	8-759-442-71	IC LSC4352P					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1250	1-216-655-11	METAL CHIP 1.5K	0.50%1/10W	R1351	1-216-613-91	METAL CHIP 27	0.50%1/10W
R1251	1-216-603-11	METAL CHIP 10	0.50%1/10W	R1354	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1253	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1355	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R1254	1-216-113-00	METAL GLAZE 470K	5% 1/10W	R1356	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R1255	1-216-105-91	METAL GLAZE 220K	5% 1/10W	R1357	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R1256	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R1359	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1257	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R1360	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1259	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1361	1-216-009-00	METAL GLAZE 22	5% 1/10W
R1260	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R1362	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1261	1-216-009-00	METAL GLAZE 22	5% 1/10W	R1363	1-216-111-00	METAL GLAZE 390K	5% 1/10W
R1262	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R1365	1-216-093-00	METAL GLAZE 68K	5% 1/10W
R1263	1-216-111-00	METAL GLAZE 390K	5% 1/10W	R1366	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1265	1-216-093-00	METAL GLAZE 68K	5% 1/10W	R1401	1-216-017-91	METAL GLAZE 47	5% 1/10W
R1266	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1402	1-216-017-91	METAL GLAZE 47	5% 1/10W
R1301	1-216-017-91	METAL GLAZE 47	5% 1/10W	R1403	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1302	1-216-017-91	METAL GLAZE 47	5% 1/10W	R1404	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1303	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1405	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R1304	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1406	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1305	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W	R1407	1-216-001-00	METAL GLAZE 10	5% 1/10W
R1306	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1408	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1307	1-216-001-00	METAL GLAZE 10	5% 1/10W	R1409	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1308	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1410	1-216-017-91	METAL GLAZE 47	5% 1/10W
R1309	1-216-041-00	METAL GLAZE 470	5% 1/10W	R1411	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1310	1-216-017-91	METAL GLAZE 47	5% 1/10W	R1412	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1311	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1413	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1312	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1414	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1313	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1415	1-216-009-00	METAL GLAZE 22	5% 1/10W
R1314	1-216-041-00	METAL GLAZE 470	5% 1/10W	R1416	1-216-009-00	METAL GLAZE 22	5% 1/10W
R1315	1-216-009-00	METAL GLAZE 22	5% 1/10W	R1417	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1316	1-216-009-00	METAL GLAZE 22	5% 1/10W	R1418	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1317	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1419	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1318	1-216-041-00	METAL GLAZE 470	5% 1/10W	R1420	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1319	1-216-041-00	METAL GLAZE 470	5% 1/10W	R1421	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R1320	1-216-041-00	METAL GLAZE 470	5% 1/10W	R1422	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R1321	1-216-105-91	METAL GLAZE 220K	5% 1/10W	R1423	1-216-635-11	METAL CHIP 220	0.50%1/10W
R1322	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W	R1424	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1323	1-216-635-11	METAL CHIP 220	0.50%1/10W	R1425	1-216-295-91	CONDUCTOR, CHIP	
R1324	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R1426	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R1325	1-216-295-91	CONDUCTOR, CHIP		R1427	1-208-810-11	METAL CHIP 15K	0.50%1/10W
R1326	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W	R1428	1-208-810-11	METAL CHIP 15K	0.50%1/10W
R1327	1-208-810-11	METAL CHIP 15K	0.50%1/10W	R1429	1-208-812-11	METAL CHIP 18K	0.50%1/10W
R1328	1-208-810-11	METAL CHIP 15K	0.50%1/10W	R1436	1-216-657-11	METAL CHIP 1.8K	0.50%1/10W
R1329	1-208-812-11	METAL CHIP 18K	0.50%1/10W	R1439	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1336	1-216-657-11	METAL CHIP 1.8K	0.50%1/10W	R1440	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R1339	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1441	1-216-295-91	CONDUCTOR, CHIP	
R1340	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R1442	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1341	1-216-635-00	METAL CHIP 220	0.50%1/10W	R1443	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1342	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1444	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1343	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1445	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R1344	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W	R1446	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R1345	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	R1447	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1346	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W	R1448	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1347	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R1449	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R1348	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1450	1-216-655-11	METAL CHIP 1.5K	0.50%1/10W
R1349	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R1451	1-216-603-11	METAL CHIP 10	0.50%1/10W
R1350	1-216-655-11	METAL CHIP 1.5K	0.50%1/10W	R1454	1-216-113-00	METAL GLAZE 470K	5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1455	1-216-105-91	METAL GLAZE 220K	5% 1/10W	R1736	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1456	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R1737	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1457	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R1738	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1459	1-216-033-00	METAL GLAZE 220	5% 1/10W				
R1460	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R1739	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1461	1-216-009-00	METAL GLAZE 22	5% 1/10W	R1740	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1462	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R1741	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R1463	1-216-111-00	METAL GLAZE 390K	5% 1/10W	R1742	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1465	1-216-093-00	METAL GLAZE 68K	5% 1/10W	R1743	1-216-109-00	METAL GLAZE 330K	5% 1/10W
R1466	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1744	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R1502	1-216-649-11	METAL CHIP 820	0.50%1/10W	R1745	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1503	1-216-647-11	METAL CHIP 680	0.50%1/10W	R1746	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1525	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1747	1-412-011-31	INDUCTOR CHIP	27UH
R1526	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R1748	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1531	1-216-025-91	METAL GLAZE 100	5% 1/10W	R1749	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1532	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1750	1-216-001-00	METAL GLAZE 10	5% 1/10W
R1533	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1751	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1534	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1752	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1535	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W	R1753	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1536	1-216-677-11	METAL CHIP 12K	0.50%1/10W	R1754	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1540	1-216-025-91	METAL GLAZE 100	5% 1/10W	R1755	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1541	1-216-025-91	METAL GLAZE 100	5% 1/10W	R1757	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R1601	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1758	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R1603	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1759	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R1604	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R1760	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R1605	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1773	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1606	1-216-039-00	METAL GLAZE 390	5% 1/10W	R1774	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1607	1-208-812-11	METAL CHIP 18K	0.50%1/10W	R1775	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1608	1-208-812-11	METAL CHIP 18K	0.50%1/10W	R1776	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1609	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1787	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1610	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R1788	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1611	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R1789	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1613	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R1790	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1615	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R1791	1-216-013-00	METAL GLAZE 33	5% 1/10W
R1616	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1801	1-208-814-11	METAL CHIP 22K	0.50%1/10W
R1620	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R1802	1-208-814-11	METAL CHIP 22K	0.50%1/10W
R1621	1-216-113-00	METAL GLAZE 470K	5% 1/10W	R1803	1-208-814-11	METAL CHIP 22K	0.50%1/10W
R1622	1-208-822-11	METAL CHIP 47K	0.50%1/10W	R1804	1-216-673-11	METAL CHIP 8.2K	0.50%1/10W
R1623	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R1805	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R1625	1-208-814-11	METAL CHIP 22K	0.50%1/10W	R1806	1-218-762-11	METAL CHIP 270K	0.50%1/10W
R1626	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R1807	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R1629	1-216-107-00	METAL GLAZE 270K	5% 1/10W	R1808	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R1701	1-216-631-11	METAL CHIP 150	0.50%1/10W	R1810	1-218-762-11	METAL CHIP 270K	0.50%1/10W
R1702	1-216-631-11	METAL CHIP 150	0.50%1/10W	R1811	1-218-762-11	METAL CHIP 270K	0.50%1/10W
R1703	1-216-631-11	METAL CHIP 150	0.50%1/10W	R1812	1-216-117-00	METAL GLAZE 680K	5% 1/10W
R1707	1-216-631-11	METAL CHIP 150	0.50%1/10W	R1814	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R1708	1-216-631-11	METAL CHIP 150	0.50%1/10W	R1815	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1709	1-216-631-11	METAL CHIP 150	0.50%1/10W	R1816	1-208-612-11	METAL OXIDE 10M	5% 1W
R1721	1-216-041-00	METAL GLAZE 470	5% 1/10W	R1817	1-208-612-11	METAL OXIDE 10M	5% 1W
R1723	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1818	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1725	1-216-025-91	METAL GLAZE 100	5% 1/10W	R1819	1-208-612-11	METAL OXIDE 10M	5% 1W
R1726	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1820	1-216-295-91	CONDUCTOR, CHIP	
R1732	1-216-017-91	METAL GLAZE 47	5% 1/10W	R1821	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1733	1-216-017-91	METAL GLAZE 47	5% 1/10W	R1822	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1734	1-216-017-91	METAL GLAZE 47	5% 1/10W	R1823	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1735	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1824	1-208-610-11	METAL OXIDE 2M	5% 1W
				R1825	1-216-073-00	METAL GLAZE 10K	5% 1/10W



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Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1826	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	* 8-933-216-00 M BOARD, COMPLETE *****			
R1827	1-216-206-00	METAL GLAZE 2.2K	5% 1/8W				
R1828	1-208-610-11	METAL OXIDE 2M	5% 1W	1-533-814-11 TERMINAL BOARD ASSY, I/O (J2001-J2005, CN2003)			
R1829	1-216-025-91	METAL GLAZE 100	5% 1/10W				
R1830	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R1831	1-249-417-11	CARBON 1K	5% 1/4W F	<CAPACITOR>			
R1832	1-216-011-00	METAL GLAZE 27	5% 1/10W	C2001	1-126-160-11	ELECT 1MF	20% 50V
R1833	1-215-896-00	METAL OXIDE 4.7K	5% 2W F	C2002	1-126-794-11	ELECT 4.7MF	20% 50V
R1834	1-215-875-11	METAL OXIDE 10K	5% 1W F	C2003	1-126-160-11	ELECT 1MF	20% 50V
R1835	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C2004	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R1836	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C2005	1-127-693-11	ELECT 27MF	20% 50V
R1837	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C2006	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R1838	1-216-009-00	METAL GLAZE 22	5% 1/10W	C2007	1-126-794-11	ELECT 4.7MF	20% 50V
R1839	1-216-009-00	METAL GLAZE 22	5% 1/10W	C2008	1-126-160-11	ELECT 1MF	20% 50V
R1840	1-216-009-00	METAL GLAZE 22	5% 1/10W	C2009	1-126-160-11	ELECT 1MF	20% 50V
R1841	1-216-113-00	METAL GLAZE 470K	5% 1/10W	C2010	1-126-177-11	ELECT 100MF	20% 10V
R1842	1-216-113-00	METAL GLAZE 470K	5% 1/10W	C2011	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R1843	1-216-113-00	METAL GLAZE 470K	5% 1/10W	C2012	1-126-160-11	ELECT 1MF	20% 50V
R1844	1-249-409-11	CARBON 220	5% 1/4W F	C2013	1-126-160-11	ELECT 1MF	20% 50V
R1845	1-202-842-11	SOLID 220K	20% 1/2W	C2014	1-126-795-11	ELECT 10MF	20% 50V
R1847	1-216-081-00	METAL GLAZE 22K	5% 1/10W	C2015	1-126-160-11	ELECT 1MF	20% 50V
R1849	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	C2020	1-163-227-11	CERAMIC CHIP 10pF	0.5pF 50V
R1850	1-216-073-00	METAL GLAZE 10K	5% 1/10W	C2021	1-163-087-00	CERAMIC CHIP 4pF	0.25pF 50V
R1851	1-208-612-11	METAL OXIDE 10M	5% 1W	C2022	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R1852	1-216-089-91	METAL GLAZE 47K	5% 1/10W	C2023	1-126-794-11	ELECT 4.7MF	20% 50V
R1853	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	C2024	1-126-795-11	ELECT 10MF	20% 50V
R1854	1-208-610-11	METAL OXIDE 2M	5% 1W	C2025	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R1901	1-260-081-11	CARBON 33	5% 1/2W	C2026	1-126-794-11	ELECT 4.7MF	20% 50V
R1902	1-260-081-11	CARBON 33	5% 1/2W	C2027	1-126-795-11	ELECT 10MF	20% 50V
R1903	1-260-081-11	CARBON 33	5% 1/2W	<CONNECTOR>			
R1904	1-260-093-11	CARBON 330	5% 1/2W	CN2001	* 1-564-594-41	PLUG, CONNECTOR	15P
R1905	1-260-093-11	CARBON 330	5% 1/2W	<DIODE>			
R1906	1-260-093-11	CARBON 330	5% 1/2W	D2001	8-719-404-49	DIODE MA111	
R1907	1-202-842-11	SOLID 220K	20% 1/2W	D2002	8-719-801-78	DIODE 1SS184	
R1908	1-202-842-11	SOLID 220K	20% 1/2W	D2003	8-719-104-34	DIODE 1S2836	
R1909	1-216-049-91	METAL GLAZE 1K	5% 1/10W	D2004	8-719-801-78	DIODE 1SS184	
R1910	1-216-049-91	METAL GLAZE 1K	5% 1/10W	D2005	8-719-104-34	DIODE 1S2836	
R1911	1-216-049-91	METAL GLAZE 1K	5% 1/10W	D2006	8-719-800-76	DIODE 1SS226	
<VARIABLE RESISTOR>				D2007	8-719-800-76	DIODE 1SS226	
RV1801 Δ 1-223-410-21 RES. ADJ. METAL FILM 110M (H.STAT)				D2008	8-719-976-99	ZENER DIODE DTZ5.1B	
<SPARK GAP>				D2009	8-719-404-49	DIODE MA111	
SG1801 1-519-422-11 GAP, SPARK				D2010	8-719-976-99	ZENER DIODE DTZ5.1B	
SG1901 1-519-504-11 GAP, DISCHARGE				D2011	8-719-976-99	ZENER DIODE DTZ5.1B	
SG1902 1-519-504-11 GAP, DISCHARGE				D2012	8-719-800-76	DIODE 1SS226	
SG1903 1-519-504-11 GAP, DISCHARGE				D2013	8-719-800-76	DIODE 1SS226	
SG1904 1-519-504-11 GAP, DISCHARGE				D2014	8-719-106-23	ZENER DIODE RD7.5M-B2	
SG1905 1-519-504-11 GAP, DISCHARGE				D2015	8-719-106-23	ZENER DIODE RD7.5M-B2	
SG1906 1-519-504-11 GAP, DISCHARGE				D2016	8-719-056-89	ZENER DIODE UDZ-TE-17-12B	
SG1907 1-519-422-11 GAP, SPARK				D2017	8-719-056-89	ZENER DIODE UDZ-TE-17-12B	
SG1908 1-517-499-21 GAP, SPARK				D2018	8-719-801-78	DIODE 1SS184	
				D2019	8-719-976-99	ZENER DIODE DTZ5.1B	



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Δ * 8-933-219-00 POWER BLOCKASSY (G BLOCK ASSY) *****				C4161 Δ	1-107-888-91	ELECT 47MF	20% 25V
4-047-285-01 SHEET, INSULATING (Q4207)				C4162 Δ	1-113-900-51	CERAMIC 470pF	10% 250V
4-382-854-11 SCREW (M3X10), P, SW (+) (IC4104, Q4107, Q4112, Q4113, Q4207, Q4209, D4101, D4106, D4128, R4237)				C4163 Δ	1-113-900-51	CERAMIC 470pF	10% 250V
<CAPACITOR>				C4164 Δ	1-107-533-51	FILM 1MF	20% 250V
C4101 Δ	1-113-926-91	CERAMIC 0.0047MF	250V	C4165 Δ	1-107-533-51	FILM 1MF	20% 250V
C4102 Δ	1-113-926-91	CERAMIC 0.0047MF	250V	C4166 Δ	1-107-875-91	ELECT 220MF	20% 10V
C4105 Δ	1-133-597-11	FILM 1MF	10% 400V	C4167 Δ	1-107-906-91	ELECT 10MF	20% 50V
C4113 Δ	1-163-251-91	CERAMIC CHIP 100pF	5% 50V	C4168 Δ	1-163-037-91	CERAMIC CHIP 0.022MF	10% 50V
C4116 Δ	1-129-898-91	FILM 0.0022MF	5% 630V	C4201 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4118 Δ	1-104-332-91	CERAMIC 470pF	10% 2KV	C4202 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4119 Δ	1-113-597-11	FILM 1MF	10% 400V	C4203 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4120 Δ	1-113-607-11	ELECT(SOLID) 330MF	20% 400V	C4204 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4121 Δ	1-165-127-91	CERAMIC 470pF	10% 500V	C4205 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4122 Δ	1-165-127-91	CERAMIC 470pF	10% 500V	C4206 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4123 Δ	1-107-905-91	ELECT 4.7MF	20% 50V	C4207 Δ	1-107-903-91	ELECT 2.2MF	20% 50V
C4124 Δ	1-137-192-81	FILM 0.33MF	5% 50V	C4208 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4125 Δ	1-137-192-81	FILM 0.33MF	5% 50V	C4209 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4126 Δ	1-164-645-91	CERAMIC 1000pF	10% 500V	C4211 Δ	1-107-909-91	ELECT 47MF	20% 50V
C4127 Δ	1-107-797-81	CERAMIC 150pF	5% 1KV	C4212 Δ	1-107-909-91	ELECT 47MF	20% 50V
C4128 Δ	1-107-797-81	CERAMIC 150pF	5% 1KV	C4213 Δ	1-163-251-91	CERAMIC CHIP 100pF	5% 50V
C4129 Δ	1-128-526-91	ELECT 100MF	20% 25V	C4215 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4130 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V	C4216 Δ	1-107-909-11	ELECT 47MF	20% 50V
C4132 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V	C4218 Δ	1-163-809-91	CERAMIC CHIP 0.047MF	10% 25V
C4133 Δ	1-102-989-91	CERAMIC 68pF	5% 500V	C4227 Δ	1-137-190-81	FILM 0.22MF	5% 50V
C4134 Δ	1-163-037-91	CERAMIC CHIP 0.022MF	10% 50V	C4230 Δ	1-108-427-91	MYLAR 0.033MF	10% 200V
C4135 Δ	1-136-538-11	FILM 0.001MF	3% 2KV	C4233 Δ	1-108-427-91	MYLAR 0.033MF	10% 200V
C4136 Δ	1-137-192-81	FILM 0.33MF	5% 50V	C4235 Δ	1-136-064-11	FILM 0.002MF	3% 2KV
C4137 Δ	1-111-057-91	ELECT 120MF	20% 25V	C4236 Δ	1-117-398-11	ELECT 33MF	20% 250V
C4138 Δ	1-104-652-91	ELECT 470MF	20% 10V	C4237 Δ	1-115-516-71	FILM 0.33MF	5% 250V
C4139 Δ	1-163-023-91	CERAMIC CHIP 0.015MF	10% 50V	C4238 Δ	1-108-389-91	MYLAR 0.1MF	10% 100V
C4140 Δ	1-115-766-51	ELECT 0.0022F	20% 16V	C4239 Δ	1-108-373-91	MYLAR 0.0047MF	10% 100V
C4141 Δ	1-137-188-81	FILM 0.15MF	5% 50V	C4240 Δ	1-137-372-91	FILM 0.022MF	5% 50V
C4142 Δ	1-137-188-81	FILM 0.15MF	5% 50V	C4242 Δ	1-108-393-91	MYLAR 0.22MF	10% 100V
C4143 Δ	1-128-526-91	ELECT 100MF	20% 25V	C4243 Δ	1-108-389-91	MYLAR 0.1MF	10% 100V
C4144 Δ	1-107-880-91	ELECT 4700MF	20% 10V	C4244 Δ	1-108-415-91	MYLAR 0.0033MF	10% 200V
C4145 Δ	1-107-880-91	ELECT 4700MF	20% 10V	C4245 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4146 Δ	1-136-333-91	FILM 0.027MF	5% 630V	C4301 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4147 Δ	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C4302 Δ	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4148 Δ	1-107-928-91	ELECT 4.7MF	20% 100V	C4303 Δ	1-107-907-91	ELECT 22MF	20% 50V
C4149 Δ	1-164-646-91	CERAMIC 2200pF	10% 500V	C4304 Δ	1-162-114-71	CERAMIC 0.0047MF	2KV
C4150 Δ	1-107-966-51	ELECT 220MF	20% 250V	<CONNECTOR>			
C4151 Δ	1-107-928-91	ELECT 4.7MF	20% 100V	CN4002 Δ	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
C4152 Δ	1-107-959-91	ELECT 3.3MF	20% 250V	CN4003 Δ	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
C4153 Δ	1-107-892-91	ELECT 4700MF	20% 25V	CN4004 Δ	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C4154 Δ	1-107-890-91	ELECT 2200MF	20% 25V	CN4005 Δ	1-564-511-51	PLUG, CONNECTOR 8P	
C4155 Δ	1-107-934-91	ELECT 220MF	20% 100V	CN4006 Δ	1-564-514-11	PLUG, CONNECTOR 11P	
C4156 Δ	1-107-888-91	ELECT 47MF	20% 25V	CN4007 Δ	1-564-516-31	PLUG, CONNECTOR 13P	
C4157 Δ	1-107-888-91	ELECT 47MF	20% 25V	CN4008 Δ	1-564-522-11	PLUG, CONNECTOR 7P	
C4158 Δ	1-107-928-91	ELECT 4.7MF	20% 100V	CN4009 Δ	1-774-511-11	CONNECTOR, BOARD TO BOARD 10P	
C4159 Δ	1-107-905-91	ELECT 4.7MF	20% 50V	CN4010 Δ	1-770-212-11	CONNECTOR, BOARD TO BOARD 16P	
C4160 Δ	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	CN4011 Δ	1-764-101-11	PIN, CONNECTOR (PC BOARD) 2P	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>				D4302 Δ 8-719-404-50 DIODE MA111-TX			
D4101 Δ 8-719-510-53 DIODE D4SB60L				D4303 Δ 8-719-056-79 ZENER DIODE UDZ-TE-17-4.7B			
D4103 Δ 8-719-404-50 DIODE MA111-TX				<FUSE>			
D4105 Δ 8-719-404-50 DIODE MA111-TX				F4101 Δ 1-576-233-11 FUSE (H.B.C.) (6.3A/250V)			
D4106 Δ 8-719-029-04 DIODE D5L60				Δ 1-533-223-11 HOLDER, FUSE ; F4101			
D4107 Δ 8-719-404-50 DIODE MA111-TX				<FERRITE BEAD>			
D4108 Δ 8-719-404-50 DIODE MA111-TX				FB4101 Δ 1-410-396-51 FERRITE BEAD INDUCTOR 0.45UH			
D4109 Δ 8-719-921-20 DIODE 1SS119-25TD				FB4102 Δ 1-410-396-51 FERRITE BEAD INDUCTOR 0.45UH			
D4110 Δ 8-719-921-20 DIODE 1SS119-25TD				FB4103 Δ 1-410-396-51 FERRITE BEAD INDUCTOR 0.45UH			
D4111 Δ 8-719-921-20 DIODE 1SS119-25TD				FB4104 Δ 1-410-396-51 FERRITE BEAD INDUCTOR 0.45UH			
D4112 Δ 8-719-921-20 DIODE 1SS119-25TD				FB4105 Δ 1-410-396-51 FERRITE BEAD INDUCTOR 0.45UH			
D4113 Δ 8-719-056-71 ZENER DIODE UDZ-TE-17-2.2B				FB4201 Δ 1-410-397-31 FERRITE BEAD INDUCTOR 1.1UH			
D4114 Δ 8-719-404-50 DIODE MA111-TX				FB4202 Δ 1-410-397-31 FERRITE BEAD INDUCTOR 1.1UH			
D4115 Δ 8-719-024-88 DIODE D1NL20-TR				<IC>			
D4116 Δ 8-719-056-71 ZENER DIODE UDZ-TE-17-2.2B				IC4103 Δ 8-759-189-04 IC UPC1093J-T			
D4117 Δ 8-719-404-50 DIODE MA111-TX				IC4104 Δ 8-749-011-42 IC SI-3050F			
D4118 Δ 8-719-024-88 DIODE D1NL20-TR				IC4105 Δ 8-749-013-03 IC DM-60			
D4119 Δ 8-719-032-10 DIODE D1NS4-TR2				IC4201 Δ 8-759-708-48 IC NJM78L12A-T1			
D4120 Δ 8-719-022-98 DIODE D2S4MTA1				<COIL>			
D4122 Δ 8-719-022-98 DIODE D2S4MTA1				L4101 Δ 1-411-674-11 COIL, CHOKE 68UH			
D4123 Δ 8-719-022-98 DIODE D2S4MTA1				L4102 Δ 1-408-603-21 INDUCTOR 10UH			
D4124 Δ 8-719-052-86 DIODE D2L40-TA				L4103 Δ 1-403-588-21 CIL, CHOKE 22UH			
D4125 Δ 8-719-052-86 DIODE D2L40-TA				L4104 Δ 1-406-659-21 COIL, CHOKE 10UH			
D4126 Δ 8-719-024-88 DIODE D1NL20-TR				L4105 Δ 1-403-588-21 CIL, CHOKE 22UH			
D4127 Δ 8-719-052-86 DIODE D2L40-TA				L4106 Δ 1-410-645-41 INDUCTOR 100UH			
D4128 Δ 8-719-052-28 DIODE D10SBS4				L4201 Δ 1-412-537-61 INDUCTOR 100UH			
D4129 Δ 8-719-404-50 DIODE MA111-TX				L4202 Δ 1-406-660-41 COIL, CHOKE 15UH			
D4130 Δ 8-719-052-86 DIODE D2L40-TA				<PHOTO COUPLER>			
D4131 Δ 8-719-024-88 DIODE D1NL20-TR				PH4101 Δ 8-749-010-65 PHOTO COUPLER PC123F2			
D4132 Δ 8-719-056-94 ZENER DIODE UDZ-TE-17-20B				PH4102 Δ 8-719-156-73 PHOTO COUPLER PS2501-1-L			
D4133 Δ 8-719-113-35 ZENER DIODE RD18ES-T1B2				PH4103 Δ 8-749-010-65 PHOTO COUPLER PC123F2			
D4134 Δ 8-719-404-50 DIODE MA111-TX				<IC LINK>			
D4135 Δ 8-719-404-50 DIODE MA111-TX				PS4101 Δ 1-532-685-91 LINK, IC 0.8A/150V			
D4136 Δ 8-719-113-35 ZENER DIODE RD18ES-T1B2				PS4102 Δ 1-532-637-91 LINK, IC 1A/150V			
D4137 Δ 8-719-404-50 DIODE MA111-TX				PS4103 Δ 1-533-593-31 LINK, IC 2A/90V			
D4138 Δ 8-719-404-50 DIODE MA111-TX				PS4104 Δ 1-533-593-31 LINK, IC 2A/90V			
D4139 Δ 8-719-404-50 DIODE MA111-TX				PS4105 Δ 1-533-595-31 LINK, IC 3.15A/90V			
D4141 Δ 8-719-404-50 DIODE MA111-TX				PS4106 Δ 1-533-593-31 LINK, IC 2A/90V			
D4142 Δ 8-719-404-50 DIODE MA111-TX				PS4201 Δ 1-533-592-31 LINK, IC 1.6A/90V			
D4201 Δ 8-719-404-50 DIODE MA111-TX				<TRANSISTOR>			
D4202 Δ 8-719-056-80 ZENER DIODE UDZ-TE-17-5.1B				Q4103 Δ 8-729-824-24 TRANSISTOR 2SA1338-5-TB			
D4204 Δ 8-719-056-87 ZENER DIODE UDZ-TE-17-10B				Q4104 Δ 8-729-824-24 TRANSISTOR 2SA1338-5-TB			
D4206 Δ 8-719-056-87 ZENER DIODE UDZ-TE-17-10B				Q4105 Δ 8-729-033-26 TRANSISTOR DTA114GKAT146			
D4211 Δ 8-719-404-50 DIODE MA111-TX							
D4214 Δ 8-719-056-92 ZENER DIODE UDZ-TE-17-16B							
D4218 Δ 8-719-056-90 ZENER DIODE UDZ-TE-17-13B							
D4219 Δ 8-719-048-73 DIODE ERC90M-03							
D4220 Δ 8-719-056-99 ZENER DIODE UDZ-TE-17-33B							
D4221 Δ 8-719-922-20 DIODE 1SS120TD							
D4222 Δ 8-719-921-20 DIODE 1SS119-25TD							
D4223 Δ 8-719-113-16 ZENER DIODE RD16ES-T1B2							
D4224 Δ 8-719-921-20 DIODE 1SS119-25TD							
D4225 Δ 8-719-989-44 DIODE ERA34-10TP1							
D4226 Δ 8-719-989-44 DIODE ERA34-10TP1							
D4229 Δ 8-719-404-50 DIODE MA111-TX							
D4301 Δ 8-719-404-50 DIODE MA111-TX							



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REF.NO. PART NO. DESCRIPTION	REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
Q4106 Δ 8-729-920-75 TRANSISTOR 2SC2412K-T-146-QR		R4141 Δ 1-215-859-71 METAL OXIDE 22	5% 1W F
Q4107 Δ 8-729-039-47 TRANSISTOR 2SK2195		R4142 Δ 1-215-859-71 METAL OXIDE 22	5% 1W F
Q4110 Δ 8-729-033-24 TRANSISTOR DTC114GKAT146		R4143 Δ 1-216-081-91 METAL GLAZE 22K	5% 1/10W
Q4111 Δ 8-729-033-26 TRANSISTOR DTA114GKAT146		R4144 Δ 1-216-357-71 METAL OXIDE 4.7	5% 1W F
Q4112 Δ 8-729-033-51 TRANSISTOR 2SC4833MNP-2		R4145 Δ 1-217-418-61 FUSIBLE 0.47	10% 1/2W F
Q4113 Δ 8-729-033-51 TRANSISTOR 2SC4833MNP-2			
Q4114 Δ 8-729-920-75 TRANSISTOR 2SC2412K-T-146-QR		R4146 Δ 1-215-479-91 METAL 270K	1% 1/4W
Q4115 Δ 8-729-039-74 TRANSISTOR 2SC4833MNP-1		R4147 Δ 1-215-479-91 METAL 270K	1% 1/4W
Q4116 Δ 8-729-039-74 TRANSISTOR 2SC4833MNP-1		R4148 Δ 1-215-479-91 METAL 270K	1% 1/4W
Q4117 Δ 8-729-033-26 TRANSISTOR DTA114GKAT146		R4149 Δ 1-216-304-91 METAL GLAZE 3.3	5% 1/10W
Q4118 Δ 8-729-920-72 TRANSISTOR 2SA1037K-T-146-QR		R4150 Δ 1-215-479-91 METAL 270K	1% 1/4W
Q4119 Δ 8-729-033-26 TRANSISTOR DTA114GKAT146			
Q4120 Δ 8-729-230-44 TRANSISTOR 2SC2458TP-YGR		R4151 Δ 1-249-389-91 CARBON 4.7	5% 1/4W F
Q4121 Δ 8-729-036-01 TRANSISTOR 2SA1371DE-AE		R4152 Δ 1-216-304-91 METAL GLAZE 3.3	5% 1/10W
Q4122 Δ 8-729-033-24 TRANSISTOR DTC114GKAT146		R4153 Δ 1-216-073-91 METAL GLAZE 10K	5% 1/10W
Q4123 Δ 8-729-033-26 TRANSISTOR DTA114GKAT146		R4154 Δ 1-216-651-91 METAL CHIP 1K	0.50% 1/10W
Q4124 Δ 8-729-033-24 TRANSISTOR DTC114GKAT146		R4155 Δ 1-216-669-91 METAL CHIP 5.6K	0.50% 1/10W
Q4125 Δ 8-729-901-91 TRANSISTOR 2SC2411K-T-146-CQ			
Q4201 Δ 8-729-027-52 TRANSISTOR DTC124EKA-T146		R4156 Δ 1-216-061-91 METAL GLAZE 3.3K	5% 1/10W
Q4202 Δ 8-729-904-55 TRANSISTOR DTB143EK-T-146		R4157 Δ 1-216-065-91 METAL GLAZE 4.7K	5% 1/10W
Q4203 Δ 8-729-143-24 TRANSISTOR 2SC1621-T1B2B3		R4158 Δ 1-216-057-91 METAL GLAZE 2.2K	5% 1/10W
Q4204 Δ 8-729-027-52 TRANSISTOR DTC124EKA-T146		R4159 Δ 1-216-633-91 METAL CHIP 180	0.50% 1/10W
Q4205 Δ 8-729-901-91 TRANSISTOR 2SC2411K-T-146-CQ		R4160 Δ 1-216-649-91 METAL CHIP 820	0.50% 1/10W
Q4206 Δ 8-729-902-02 TRANSISTOR 2SA1036K-T-146-Q			
Q4207 Δ 8-729-033-91 TRANSISTOR 2SK1120LBSONY2		R4161 Δ 1-211-800-71 FUSIBLE 2.2	5% 1/2W F
Q4209 Δ 8-729-035-68 TRANSISTOR 2SJ449		R4162 Δ 1-216-031-91 METAL GLAZE 180	5% 1/10W
Q4301 Δ 8-729-033-24 TRANSISTOR DTC114GKAT146		R4163 Δ 1-216-031-91 METAL GLAZE 180	5% 1/10W
Q4302 Δ 8-729-033-24 TRANSISTOR DTC114GKAT146		R4164 Δ 1-216-113-91 METAL GLAZE 470K	5% 1/10W
		R4165 Δ 1-249-413-91 CARBON 470	5% 1/4W F
		R4166 Δ 1-215-483-91 METAL 390K	1% 1/4W
		R4167 Δ 1-216-689-91 METAL CHIP 39K	0.50% 1/10W
		R4168 Δ 1-216-673-91 METAL CHIP 8.2K	0.50% 1/10W
		R4169 Δ 1-216-025-91 METAL GLAZE 100	5% 1/10W
		R4170 Δ 1-215-473-91 METAL 150K	1% 1/4W
		R4171 Δ 1-216-065-91 METAL GLAZE 4.7K	5% 1/10W
		R4172 Δ 1-216-065-91 METAL GLAZE 4.7K	5% 1/10W
		R4173 Δ 1-216-345-71 METAL OXIDE 0.47	5% 1W F
		R4174 Δ 1-216-057-91 METAL GLAZE 2.2K	5% 1/10W
		R4175 Δ 1-216-073-91 METAL GLAZE 10K	5% 1/10W
		R4176 Δ 1-216-073-91 METAL GLAZE 10K	5% 1/10W
		R4177 Δ 1-216-397-71 METAL OXIDE 4.7	5% 3W F
		R4178 Δ 1-216-049-91 METAL GLAZE 1K	5% 1/10W
		R4179 Δ 1-260-304-71 CARBON 10	5% 1/2W
		R4180 Δ 1-216-057-91 METAL GLAZE 2.2K	5% 1/10W
		R4181 Δ 1-260-292-71 CARBON 1	5% 1/2W
		R4182 Δ 1-205-998-11 WIREWOUND 1	5% 10W
		R4183 Δ 1-202-914-91 SOLID 390K	20% 1/2W
		R4184 Δ 1-216-065-91 METAL GLAZE 4.7K	5% 1/10W
		R4185 Δ 1-259-033-91 CARBON 1	5% 1/4W
		R4186 Δ 1-218-642-71 METAL OXIDE 100K	5% 1W F
		R4188 Δ 1-216-045-91 METAL GLAZE 680	5% 1/10W
		R4189 Δ 1-216-065-91 METAL GLAZE 4.7K	5% 1/10W
		R4190 Δ 1-216-049-91 METAL GLAZE 1K	5% 1/10W
		R4191 Δ 1-249-397-91 CARBON 22	5% 1/4W F
		R4192 Δ 1-216-295-91 CONDUCTOR, CHIP	
		R4201 Δ 1-216-001-91 METAL GLAZE 10	5% 1/10W
		R4202 Δ 1-216-089-91 METAL GLAZE 47K	5% 1/10W
		R4203 Δ 1-216-089-91 METAL GLAZE 47K	5% 1/10W
		R4205 Δ 1-216-065-91 METAL GLAZE 4.7K	5% 1/10W
		R4206 Δ 1-216-057-91 METAL GLAZE 2.2K	5% 1/10W

<RESISTOR>

R4106 Δ 1-215-485-91 METAL 470K	1%	1/4W	
R4107 Δ 1-215-485-91 METAL 470K	1%	1/4W	
R4114 Δ 1-216-049-91 METAL GLAZE 1K	5%	1/10W	
R4115 Δ 1-216-001-91 METAL GLAZE 10	5%	1/10W	
R4120 Δ 1-216-065-91 METAL GLAZE 4.7K	5%	1/10W	
R4121 Δ 1-216-065-91 METAL GLAZE 4.7K	5%	1/10W	
R4122 Δ 1-216-049-91 METAL GLAZE 1K	5%	1/10W	
R4123 Δ 1-215-485-91 METAL 470K	1%	1/4W	
R4124 Δ 1-215-483-91 METAL 390K	1%	1/4W	
R4125 Δ 1-218-191-71 METAL OXIDE 0.1	5%	1W F	
R4126 Δ 1-249-429-91 CARBON 10K	5%	1/4W F	
R4127 Δ 1-215-485-91 METAL 470K	1%	1/4W	
R4128 Δ 1-218-191-71 METAL OXIDE 0.1	5%	1W F	
R4129 Δ 1-215-483-91 METAL 390K	1%	1/4W	
R4130 Δ 1-202-933-61 FUSIBLE 0.1	10%	1/2W F	
R4131 Δ 1-218-642-71 METAL OXIDE 100K	5%	1W F	
R4132 Δ 1-218-642-71 METAL OXIDE 100K	5%	1W F	
R4133 Δ 1-216-085-91 METAL GLAZE 33K	5%	1/10W	
R4134 Δ 1-216-073-91 METAL GLAZE 10K	5%	1/10W	
R4135 Δ 1-216-113-91 METAL GLAZE 470K	5%	1/10W	
R4136 Δ 1-216-057-91 METAL GLAZE 2.2K	5%	1/10W	
R4137 Δ 1-216-097-91 METAL GLAZE 100K	5%	1/10W	
R4138 Δ 1-218-642-71 METAL OXIDE 100K	5%	1W F	
R4139 Δ 1-218-642-71 METAL OXIDE 100K	5%	1W F	
R4140 Δ 1-216-357-71 METAL OXIDE 4.7	5%	1W F	

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and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par un trame
et une marque Δ sont critiques pour la
sécurité. Ne les remplacer que par une
pièce portant le numéro spécifié.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R4207 Δ	1-247-807-91	CARBON 100	5% 1/4W	<THERMISTOR>			
R4208 Δ	1-247-807-91	CARBON 100	5% 1/4W	TH4101 Δ	1-801-558-11	THERMISTOR, POWER	
R4209 Δ	1-216-057-91	METAL GLAZE 2.2K	5% 1/10W	TH4301 Δ	1-809-827-11	THERMISTOR, POSITIVE	
R4211 Δ	1-216-647-91	METAL CHIP 680	0.50% 1/10W	<TEST PIN>			
R4212 Δ	1-216-647-91	METAL CHIP 680	0.50% 1/10W	TP4102 Δ	1-695-915-21	TAB (CONTACT)	
R4213 Δ	1-216-041-91	METAL GLAZE 470	5% 1/10W	<VARISTOR>			
R4214 Δ	1-216-025-91	METAL GLAZE 100	5% 1/10W	VD4101 Δ	1-810-267-51	VARISTOR TNR10V431K660	
R4216 Δ	1-216-647-91	METAL CHIP 680	0.50% 1/10W	VD4102 Δ	1-801-268-51	VARISTOR TNR14V471K660	
R4218 Δ	1-216-073-91	METAL GLAZE 10K	5% 1/10W	*****			
R4219 Δ	1-216-647-91	METAL CHIP 680	0.50% 1/10W	Δ * 8-933-220-00 POWER BLOCK MCB (GA BOARD,			
R4222 Δ	1-216-671-91	METAL CHIP 6.8K	0.50% 1/10W	COMPLETE)			
R4223 Δ	1-216-671-91	METAL CHIP 6.8K	0.50% 1/10W	*****			
R4226 Δ	1-249-397-91	CARBON 22	5% 1/4W F	<CAPACITOR>			
R4228 Δ	1-249-397-91	CARBON 22	5% 1/4W F	C4103 Δ	1-163-017-91	CERAMIC CHIP 0.0047MF 10% 50V	
R4231 Δ	1-216-663-91	METAL CHIP 3.3K	0.50% 1/10W	C4104 Δ	1-163-275-91	CERAMIC CHIP 0.001MF 5% 50V	
R4232 Δ	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C4106 Δ	1-137-194-81	FILM 0.47MF 5% 50V	
R4233 Δ	1-216-689-91	METAL CHIP 39K	0.50% 1/10W	C4107 Δ	1-126-790-91	ELECT 47MF 20% 25V	
R4234 Δ	1-216-675-91	METAL CHIP 10K	0.50% 1/10W	C4108 Δ	1-137-190-81	FILM 0.22MF 5% 50V	
R4235 Δ	1-216-657-91	METAL CHIP 1.8K	0.50% 1/10W	C4109 Δ	1-137-190-81	FILM 0.22MF 5% 50V	
R4236 Δ	1-216-673-91	METAL CHIP 8.2K	0.50% 1/10W	C4110 Δ	1-164-004-91	CERAMIC CHIP 0.1MF 10% 25V	
R4237 Δ	1-219-727-11	METAL 68	5% 10W	C4111 Δ	1-164-690-91	CERAMIC CHIP 0.0022MF 5% 50V	
R4238 Δ	1-249-393-91	CARBON 10	5% 1/4W F	C4112 Δ	1-126-790-91	ELECT 47MF 20% 25V	
R4239 Δ	1-202-873-91	SOLID 4.7K	20% 1/2W	C4114 Δ	1-137-370-91	FILM 0.01MF 5% 50V	
R4240 Δ	1-202-885-91	SOLID 1M	20% 1/2W	C4115 Δ	1-164-004-91	CERAMIC CHIP 0.1MF 10% 25V	
R4241 Δ	1-247-807-91	CARBON 100	5% 1/4W	C4117 Δ	1-164-004-91	CERAMIC CHIP 0.1MF 10% 25V	
R4242 Δ	1-247-855-91	CARBON 10K	5% 1/4W	<CONNECTOR>			
R4244 Δ	1-247-871-91	CARBON 47K	5% 1/4W	CN4013 Δ	1-774-512-11	CONNECTOR, BOARD TO BOARD 10P	
R4245 Δ	1-249-413-91	CARBON 470	5% 1/4W F	<DIODE>			
R4249 Δ	1-216-109-91	METAL GLAZE 330K	5% 1/10W	D4102 Δ	8-719-056-82	ZENER DIODE UDZ-TE-17-6.2B	
R4301 Δ	1-260-085-81	CARBON 68	5% 1/2W	D4104 Δ	8-719-978-68	ZENER DIODE DTZ16A	
R4302 Δ	1-260-085-81	CARBON 68	5% 1/2W	<IC>			
R4303 Δ	1-216-073-91	METAL GLAZE 10K	5% 1/10W	IC4101 Δ	8-759-904-94	IC TL494CN	
R4304 Δ	1-216-081-91	METAL GLAZE 22K	5% 1/10W	IC4102 Δ	8-759-198-31	IC UPC1093J-1-T	
<RELAY>				<TRANSISTOR>			
RY4301 Δ	1-515-849-11	RELAY		Q4101 Δ	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
RY4302 Δ	1-515-849-11	RELAY		Q4102 Δ	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
<SPARK GAP>				Q4108 Δ	8-729-033-24	TRANSISTOR DTC114GKAT146	
SG4201 Δ	1-519-421-32	GAP, DISCHARGE		Q4109 Δ	8-729-033-26	TRANSISTOR DTA114GKAT146	
<TRANSFORMER>							
T4101 Δ	1-415-935-11	COIL, CHOKE					
T4102 Δ	1-429-212-11	TRANSFORMER, CONVERTER (PIT)					
T4103 Δ	1-429-254-11	TRANSFORMER, CONVERTER (PRT)					
T4104 Δ	1-429-254-11	TRANSFORMER, CONVERTER (PRT)					
T4105 Δ	1-429-967-11	TRANSFORMER, CONVERTER (PIT)					
T4106 Δ	1-429-966-11	TRANSFORMER, CONVERTER					
T4108 Δ	1-429-969-11	TRANSFORMER, LINE FILTER					
T4201 Δ	1-415-934-11	COIL, CHOKE 500mH					
T4202 Δ	X-4034-094-1	TRANSFORMER ASSY, FLYBACK					
		(NX-4202/J1D4)					

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Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>				D4213 Δ 8-719-404-50 DIODE MA111-TX			
R4101 Δ	1-216-041-91	METAL GLAZE 470	5% 1/10W	D4215 Δ 8-719-404-50 DIODE MA111-TX			
R4102 Δ	1-216-017-91	METAL GLAZE 47	5% 1/10W	D4216 Δ 8-719-921-20 DIODE 1SS119-25TD			
R4103 Δ	1-216-105-91	METAL GLAZE 220K	5% 1/10W	D4217 Δ 8-719-404-50 DIODE MA111-TX			
R4104 Δ	1-216-073-91	METAL GLAZE 10K	5% 1/10W	D4227 Δ 8-719-056-87 DIODE UDZ-TE-17-10B			
R4105 Δ	1-216-089-91	METAL GLAZE 47K	5% 1/10W	<IC>			
R4108 Δ 1-216-699-91 METAL CHIP 100K 0.50% 1/10W				IC4202 Δ 8-759-351-04 IC SBA9755S			
R4109 Δ 1-216-049-91 METAL GLAZE 1K 5% 1/10W				<TRANSISTOR>			
R4110 Δ 1-216-065-91 METAL GLAZE 4.7K 5% 1/10W				Q4208 Δ 8-729-027-52 TRANSISTOR DTC124EKA-T146			
R4111 Δ 1-216-089-91 METAL GLAZE 47K 5% 1/10W				<RESISTOR>			
R4112 Δ 1-216-025-91 METAL GLAZE 100 5% 1/10W				R4204 Δ 1-216-667-91 METAL CHIP 4.7K 0.50% 1/10W			
R4113 Δ 1-216-667-91 METAL CHIP 4.7K 0.50% 1/10W				R4210 Δ 1-216-049-91 METAL GLAZE 1K 5% 1/10W			
R4116 Δ 1-216-081-91 METAL GLAZE 22K 5% 1/10W				R4215 Δ 1-216-065-91 METAL GLAZE 4.7K 5% 1/10W			
R4117 Δ 1-216-689-91 METAL CHIP 39K 0.50% 1/10W				R4217 Δ 1-216-097-91 METAL GLAZE 100K 5% 1/10W			
R4118 Δ 1-216-669-91 METAL CHIP 5.6K 0.50% 1/10W				R4220 Δ 1-216-097-91 METAL GLAZE 100K 5% 1/10W			
R4119 Δ 1-216-065-91 METAL GLAZE 4.7K 5% 1/10W				R4221 Δ 1-216-105-91 METAL GLAZE 220K 5% 1/10W			
*****				R4224 Δ 1-216-097-91 METAL GLAZE 100K 5% 1/10W			
Δ * 8-933-221-00 POWER BLOCK MCB (GB BOARD, COMPLETE)				R4225 Δ 1-216-025-91 METAL GLAZE 100 5% 1/10W			
<CAPACITOR>				R4227 Δ 1-216-117-91 METAL GLAZE 680K 5% 1/10W			
C4210 Δ 1-163-267-91 CERAMIC CHIP 470pF 5% 50V				R4229 Δ 1-216-073-91 METAL GLAZE 10K 5% 1/10W			
C4214 Δ 1-163-021-91 CERAMIC CHIP 0.01MF 10% 50V				R4230 Δ 1-216-097-91 METAL GLAZE 100K 5% 1/10W			
C4217 Δ 1-126-796-91 ELECT 22MF 20% 50V				R4246 Δ 1-216-295-91 CONDUCTOR, CHIP			
C4219 Δ 1-126-382-91 ELECT 100MF 20% 16V				R4247 Δ 1-216-061-91 METAL GLAZE 22K 5% 1/10W			
C4220 Δ 1-137-198-81 FILM 1MF 5% 50V				R4248 Δ 1-216-073-91 METAL GLAZE 10K 5% 1/10W			
C4221 Δ 1-163-275-91 CERAMIC CHIP 0.001MF 5% 50V				*****			
C4222 Δ 1-124-261-91 ELECT 10MF 20% 50V				* 8-933-213-00 DEFLECTION MCB ASSY (D BLOCK ASSY)			
C4223 Δ 1-164-690-91 CERAMIC CHIP 0.0022MF 5% 50V				4-040-989-01 SPRING (A), TR RETAINER			
C4224 Δ 1-137-198-81 FILM 1MF 5% 50V				4-040-992-01 SPRING (AA), TR RETAINER			
C4225 Δ 1-164-004-91 CERAMIC CHIP 0.1MF 10% 25V				4-040-994-01 SPRING (BB), TR RETAINER			
C4226 Δ 1-124-261-91 ELECT 10MF 20% 50V				4-051-627-21 SHEET, INSULATING			
C4228 Δ 1-163-275-91 CERAMIC CHIP 0.001MF 5% 50V				4-055-721-01 SHEET, INSULATOR			
C4229 Δ 1-163-021-91 CERAMIC CHIP 0.01MF 10% 50V				4-382-854-01 SCREW (M3X8), P, SW (+) (IC6401)			
C4231 Δ 1-163-243-91 CERAMIC CHIP 47pF 5% 50V				7-685-647-79 SCREW +BVTP 3X10 TYPE2 TT(B)			
C4232 Δ 1-124-257-91 ELECT 2.2MF 20% 50V				<CAPACITOR>			
C4234 Δ 1-124-259-91 ELECT 4.7MF 20% 50V				C6000 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V			
<CONNECTOR>				C6001 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V			
CN4012 Δ 1-770-214-11 CONNECTOR, BOARD TO BOARD 16P				C6002 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V			
<DIODE>				C6003 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V			
D4203 Δ 8-719-404-50 DIODE MA111-TX				C6004 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V			
D4205 Δ 8-719-404-50 DIODE MA111-TX				C6005 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V			
D4207 Δ 8-719-404-50 DIODE MA111-TX				C6006 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V			
D4208 Δ 8-719-404-50 DIODE MA111-TX				C6007 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V			
D4209 Δ 8-719-404-50 DIODE MA111-TX				C6008 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V			
D4210 Δ 8-719-404-50 DIODE MA111-TX				C6009 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V			
D4212 Δ 8-719-404-50 DIODE MA111-TX							



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C6010	1-126-941-11	ELECT	470MF 20% 25V	C6221	1-124-903-11	ELECT 1MF	20% 50V
C6011	1-126-967-11	ELECT	47MF 20% 50V	C6222	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6012	1-126-967-11	ELECT	47MF 20% 50V	C6223	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C6013	1-126-941-11	ELECT	470MF 20% 25V	C6303	1-126-964-11	ELECT 10MF	20% 50V
C6014	1-126-967-11	ELECT	47MF 20% 50V	C6304	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C6015	1-126-967-11	ELECT	47MF 20% 50V	C6305	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C6016	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C6306	1-163-235-11	CERAMIC CHIP 22pF	5% 50V
C6017	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6308	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C6018	1-126-967-11	ELECT	47MF 20% 50V	C6309	1-136-173-00	FILM 0.47MF	5% 50V
C6103	1-109-982-11	CERAMIC CHIP 1MF	10% 10V	C6310	1-137-365-11	FILM 0.0015MF	5% 50V
C6104	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C6311	1-126-967-11	ELECT 47MF	20% 50V
C6105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6312	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6106	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C6313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6314	1-163-133-00	CERAMIC CHIP 470pF	5% 50V
C6110	1-126-967-11	ELECT	47MF 20% 50V	C6315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6111	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C6316	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6112	1-163-239-11	CERAMIC CHIP 33pF	5% 50V	C6317	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6113	1-163-239-11	CERAMIC CHIP 33pF	5% 50V	C6318	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6115	1-126-967-11	ELECT	47MF 20% 50V	C6319	1-126-964-11	ELECT 10MF	20% 50V
C6116	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6320	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C6117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6321	1-126-964-11	ELECT 10MF	20% 50V
C6118	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6322	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6120	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V	C6323	1-163-005-11	CERAMIC CHIP 470pF	10% 50V
C6122	1-163-133-00	CERAMIC CHIP 470pF	5% 50V	C6324	1-124-903-11	ELECT 1MF	20% 50V
C6123	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6325	1-163-001-11	CERAMIC CHIP 220pF	10% 50V
C6124	1-126-967-11	ELECT	47MF 20% 50V	C6326	1-126-964-11	ELECT 10MF	20% 50V
C6125	1-163-239-11	CERAMIC CHIP 33pF	5% 50V	C6327	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6126	1-163-239-11	CERAMIC CHIP 33pF	5% 50V	C6328	1-113-519-11	FILM 0.22MF	5% 50V
C6127	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C6329	1-137-365-11	FILM 0.0015MF	5% 50V
C6128	1-109-982-11	CERAMIC CHIP 1MF	10% 10V	C6330	1-126-941-11	ELECT 470MF	20% 25V
C6129	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6331	1-137-399-11	FILM 0.1MF	5% 50V
C6130	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C6332	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6131	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6333	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6132	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6334	1-137-365-11	FILM 0.0015MF	5% 50V
C6133	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C6335	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6200	1-124-903-11	ELECT 1MF	20% 50V	C6336	1-137-365-11	FILM 0.0015MF	5% 50V
C6201	1-126-967-11	ELECT 47MF	20% 50V	C6337	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6202	1-104-824-11	FILM 0.0033MF	5% 50V	C6340	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C6203	1-163-121-00	CERAMIC CHIP 150pF	5% 50V	C6341	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6204	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C6342	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6205	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C6343	1-163-253-11	CERAMIC CHIP 120pF	5% 50V
C6206	1-113-700-11	FILM 0.0012MF	5% 50V	C6344	1-163-253-11	CERAMIC CHIP 120pF	5% 50V
C6207	1-126-963-11	ELECT 4.7MF	20% 50V	C6400	1-162-114-00	CERAMIC 0.0047MF	2KV
C6208	1-113-700-11	FILM 0.0012MF	5% 50V	C6402	1-117-398-11	ELECT 33MF	20% 250V
C6209	1-163-133-00	CERAMIC CHIP 470pF	5% 50V	C6405	1-104-843-11	FILM 0.0055MF	3% 2KV
C6210	1-126-963-11	ELECT 4.7MF	20% 50V	C6406	1-162-558-11	CERAMIC 100pF	10% 2KV
C6211	1-124-903-11	ELECT 1MF	20% 50V	C6407	1-106-367-00	MYLAR 0.01MF	10% 200V
C6212	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C6408	1-106-367-00	MYLAR 0.01MF	10% 200V
C6213	1-163-133-00	CERAMIC CHIP 470pF	5% 50V	C6409	1-136-553-11	FILM 0.0015MF	5% 630V
C6214	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C6410	1-101-884-00	CERAMIC 56pF	5% 50V
C6215	1-128-528-11	ELECT 470MF	20% 16V	C6411	1-162-558-11	CERAMIC 100pF	10% 2KV
C6216	1-124-925-11	ELECT 2.2MF	20% 50V	C6412	1-137-370-11	FILM 0.01MF	5% 50V
C6217	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C6413	1-162-134-11	CERAMIC 470pF	10% 2KV
C6218	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C6414	1-137-368-11	FILM 0.0047MF	5% 50V
C6219	1-137-370-11	FILM 0.01MF	5% 50V	C6415	1-137-368-11	FILM 0.0047MF	5% 50V
C6220	1-124-925-11	ELECT 2.2MF	20% 50V	C6416	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C6417	1-136-173-00	FILM	0.47MF 5% 50V	C6701	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6418	1-136-173-00	FILM	0.47MF 5% 50V	C6702	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C6419	1-107-913-11	ELECT	470MF 20% 50V				
C6421	1-107-929-11	ELECT	10MF 20% 50V	C6703	1-109-842-11	CERAMIC 10pF	5% 2KV
C6424	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V	C6704	1-162-114-00	CERAMIC 0.0047MF	2KV
C6427	1-107-902-11	ELECT	1MF 20% 50V	C6705	1-162-114-00	CERAMIC 0.0047MF	2KV
C6428	1-126-163-11	ELECT	4.7MF 20% 50V	C6706	1-109-842-11	CERAMIC 10pF	5% 2KV
C6429	1-137-370-11	FILM	0.01MF 5% 50V	C6707	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6430	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	C6708	1-163-005-11	CERAMIC CHIP 470pF	10% 50V
C6431	1-117-400-11	CAPACITOR	0 0 0	C6709	1-107-929-11	ELECT 10MF	20% 50V
C6432	1-113-694-11	FILM	0.056MF 5% 400V	C6711	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6433	1-107-846-11	FILM	0.1MF 5% 400V	C6712	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C6434	1-117-400-11	CAPACITOR	0 0 0	C6713	1-137-364-11	FILM 0.001MF	5% 50V
C6435	1-115-342-11	FILM	0.47MF 5% 400V	C6714	1-107-929-11	ELECT 10MF	20% 50V
C6436	1-110-486-11	FILM	1MF 5% 400V	C6715	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6440	1-107-683-11	ELECT	2.2MF 0 250V	C6716	1-107-909-11	ELECT 47MF	20% 50V
C6441	1-107-909-11	ELECT	47MF 20% 50V	C6717	1-107-444-11	CERAMIC 100pF	5% 2KV
C6442	1-107-909-11	ELECT	47MF 20% 50V	C6718	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6443	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C6719	1-126-163-11	ELECT 4.7MF	20% 50V
C6444	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C6720	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6445	1-126-163-11	ELECT	4.7MF 20% 50V	C6721	1-109-889-11	ELECT 1MF	20% 50V
C6446	1-163-023-00	CERAMIC CHIP	0.015MF 10% 50V	C6722	1-107-902-11	ELECT 1MF	20% 50V
C6447	1-113-696-11	FILM	1.4MF 5% 400V	C6723	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6448	1-107-683-11	ELECT	2.2MF 0 250V	C6727	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6449	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C6728	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C6450	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C6731	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6451	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C6732	1-107-444-11	CERAMIC 100pF	5% 2KV
C6452	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C6734	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C6453	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C6801	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6454	1-107-929-11	ELECT	10MF 20% 50V	C6803	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6455	1-107-513-11	FILM	0.6MF 5% 400V	C6804	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6500	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C6805	1-107-909-11	ELECT 47MF	20% 50V
C6501	1-128-528-11	ELECT	470MF 20% 25V	C6806	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6502	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C6807	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6503	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C6808	1-163-003-11	CERAMIC CHIP 330pF	10% 50V
C6504	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V	C6809	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C6505	1-128-528-11	ELECT	470MF 20% 25V	C6810	1-107-909-11	ELECT 47MF	20% 50V
C6506	1-106-367-00	MYLAR	0.01MF 10% 200V	C6901	1-128-339-11	ELECT 2200MF	20% 10V
C6507	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	<CONNECTOR>			
C6510	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V	CN6001*	1-564-514-11	PLUG, CONNECTOR	11P
C6511	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	CN6002*	1-564-508-11	PLUG, CONNECTOR	5P
C6512	1-163-005-11	CERAMIC CHIP	470pF 10% 50V	CN6003*	1-564-511-11	PLUG, CONNECTOR	8P
C6513	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	CN6004*	1-564-516-11	PLUG, CONNECTOR	13P
C6514	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	CN6005*	1-564-596-11	PLUG, CONNECTOR	15P
C6515	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	CN6008*	1-564-596-11	PLUG, CONNECTOR	15P
C6600	1-106-228-00	MYLAR	0.22MF 10% 100V	CN6010*	1-778-955-11	PIN, CONNECTOR (PC BOARD)	10P
C6601	1-107-902-11	ELECT	1MF 20% 50V	CN6011*	1-564-508-11	PLUG, CONNECTOR	5P
C6602	1-126-105-11	ELECT	1000MF 20% 25V	CN6012*	1-564-511-11	PLUG, CONNECTOR	8P
C6603	1-126-105-11	ELECT	1000MF 20% 25V	<COMPOSITION CIRCUIT BLOCK>			
C6604	1-137-399-11	FILM	0.1MF 5% 50V	CP6700	1-223-985-11	RESISTOR ASSY, (WF-721)	
C6605	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V				
C6606	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V				
C6607	1-163-989-11	CERAMIC CHIP	0.033MF 10% 25V				
C6608	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V				
C6609	1-107-894-11	ELECT	220MF 20% 35V				
C6700	1-162-134-11	CERAMIC	470pF 10% 2KV				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>					
D6000	8-719-104-34	DIODE 1S2836		D6805	8-719-911-19	DIODE 1SS119-25	
D6001	8-719-104-34	DIODE 1S2836		D6901	8-719-404-49	DIODE MA111	
D6002	8-719-801-78	DIODE 1SS184		D6902	8-719-404-49	DIODE MA111	
D6003	8-719-801-78	DIODE 1SS184					
D6004	8-719-800-76	DIODE 1SS226				<FERRITE BEAD>	
D6005	8-719-801-78	DIODE 1SS184		FB6400	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
D6200	8-719-158-49	ZENER DIODE RD12SB2		FB6401	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
D6300	8-719-404-49	DIODE MA111					
D6301	8-719-404-49	DIODE MA111				<IC>	
D6302	8-719-800-76	DIODE 1SS226		IC6000	8-759-231-53	IC TA7805S	
D6303	8-719-404-49	DIODE MA111		IC6001	8-759-168-20	IC TA78L09S	
D6304	8-719-404-49	DIODE MA111		IC6100	8-759-442-18	HD6433337WA11H	
D6305	8-719-404-49	DIODE MA111		IC6101	8-759-162-80	IC MM1170BFB	
D6306	8-719-404-49	DIODE MA111		IC6102	8-759-353-44	IC ST24C08FM6TR	
D6400	8-719-018-82	DIODE RGP02-20EL-6394		IC6103	8-759-353-44	IC ST24C08FM6TR	
D6401	8-719-018-82	DIODE RGP02-20EL-6394		IC6110	8-759-442-19	HD6433337WA12H	
D6402	8-719-106-80	ZENER DIODE RD13M-B2		IC6111	8-759-162-80	IC MM1170BFB	
D6403	8-719-048-73	DIODE ERC90M-03		IC6112	8-759-178-20	IC M62354FP	
D6404	8-719-049-12	DIODE 5TUZ52		IC6200	8-759-158-84	IC CXA1543M-T6	
D6405	8-719-911-19	DIODE 1SS119-25		IC6201	8-759-100-94	IC UPC358G2	
D6406	8-719-984-73	DIODE SB560		IC6202	8-759-105-35	IC UPC78L10J	
D6407	8-719-911-19	DIODE 1SS119-25		IC6300	8-752-071-57	IC CXA1908S	
D6408	8-719-109-81	ZENER DIODE RD4.7ESB2		IC6301	8-759-239-55	IC TC74HC123AF	
D6409	8-719-911-19	DIODE 1SS119-25		IC6302	8-759-008-94	IC MC14027BF	
D6410	8-719-404-49	DIODE MA111		IC6303	8-759-100-94	IC UPC358G2	
D6412	8-719-976-99	ZENER DIODE DTZ5.1B		IC6304	8-759-925-72	IC SN74HC02ANS	
D6413	8-719-106-23	ZENER DIODE RD7.5M-B2		IC6306	8-759-239-55	IC TC74HC123AF	
D6414	8-719-951-30	DIODE ERA91-02		IC6307	8-759-011-65	IC MC74HC4053F	
D6415	8-719-404-49	DIODE MA111		IC6401	8-749-011-63	IC IRSY5305	
D6416	8-719-404-49	DIODE MA111		IC6402	8-759-103-09	IC UPC4082G2	
D6417	8-719-404-49	DIODE MA111		IC6500	8-759-708-05	IC NJM78L05A	
D6418	8-719-106-44	ZENER DIODE RD9.1M-B2		IC6501	8-759-803-42	IC LA6500-FA	
D6419	8-719-404-49	DIODE MA111		IC6502	8-759-100-96	IC UPC4558G2	
D6424	8-719-404-49	DIODE MA111		IC6600	8-759-103-09	IC UPC4082G2	
D6500	8-719-404-49	DIODE MA111		IC6601	8-759-980-58	IC TDA8172	
D6600	8-719-976-99	ZENER DIODE DTZ5.1B		IC6700	8-759-103-09	IC UPC4082G2	
D6601	8-719-908-03	DIODE GP08D		IC6701	8-759-700-69	IC NJM79L12A	
D6602	8-719-908-03	DIODE GP08D		IC6702	8-759-100-94	IC UPC358G2	
D6603	8-719-908-03	DIODE GP08D		IC6703	8-759-103-09	IC UPC4082G2	
D6604	8-719-911-19	DIODE 1SS119-25		IC6704	8-759-100-93	IC UPC393G2	
D6605	8-719-979-85	DIODE EGP20G		IC6801	8-759-822-38	IC LA6510	
D6700	8-719-028-72	DIODE RGP02-17EL-6433				<COIL>	
D6701	8-719-028-72	DIODE RGP02-17EL-6433		L6000	1-412-537-31	INDUCTOR	100UH
D6702	8-719-404-49	DIODE MA111		L6001	1-412-537-31	INDUCTOR	100UH
D6707	8-719-404-49	DIODE MA111		L6002	1-412-537-31	INDUCTOR	100UH
D6711	8-719-911-19	DIODE 1SS119-25		L6003	1-412-537-31	INDUCTOR	100UH
D6713	8-719-911-19	DIODE 1SS119-25		L6004	1-410-482-31	INDUCTOR	100UH
D6714	8-719-404-49	DIODE MA111		L6100	1-410-482-31	INDUCTOR	100UH
D6715	8-719-404-49	DIODE MA111		L6101	1-410-482-31	INDUCTOR	100UH
D6716	8-719-404-49	DIODE MA111		L6200	1-412-537-31	INDUCTOR	100UH
D6718	8-719-018-82	DIODE RGP02-20EL-6394		L6400	1-412-537-31	INDUCTOR	100UH
D6801	8-719-976-99	ZENER DIODE DTZ5.1B		L6401	1-406-675-11	COIL, CHOKE	4.7mH
D6802	8-719-911-19	DIODE 1SS119-25					
D6803	8-719-911-19	DIODE 1SS119-25					
D6804	8-719-911-19	DIODE 1SS119-25					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L6402	1-411-478-11	COIL, HORIZONTAL LINEARITY		<RESISTOR>			
L6403	1-411-709-11	COIL, HORIZONTAL LINEARITY		R6001	1-216-049-91	METAL GLAZE 1K	5% 1/10W
L6404	1-406-671-11	COIL, CHOKE 1.0mH		R6002	1-216-025-91	METAL GLAZE 100	5% 1/10W
L6406	1-406-675-11	COIL, CHOKE 4.7mH		R6004	1-216-025-91	METAL GLAZE 100	5% 1/10W
L6701	1-416-105-11	COIL, HORIZONTAL LINEARITY		R6005	1-216-049-91	METAL GLAZE 1K	5% 1/10W
L6801	1-412-522-31	INDUCTOR 5.6UH		R6006	1-216-049-91	METAL GLAZE 1K	5% 1/10W
<IC LINK>				R6007	1-216-049-91	METAL GLAZE 1K	5% 1/10W
PS6000Δ	1-532-984-91	LINK, IC 2A/90V AC, 60V AC		R6008	1-216-049-91	METAL GLAZE 1K	5% 1/10W
PS6001Δ	1-532-984-91	LINK, IC 2A/90V AC, 60V AC		R6009	1-216-025-91	METAL GLAZE 100	5% 1/10W
PS6002Δ	1-532-984-91	LINK, IC 2A/90V AC, 60V AC		R6010	1-216-025-91	METAL GLAZE 100	5% 1/10W
PS6400Δ	1-533-592-31	LINK, IC 1.6A/90V AC, 60V AC		R6011	1-216-017-91	METAL GLAZE 47	5% 1/10W
<TRANSISTOR>				R6012	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6122	8-729-119-78	TRANSISTOR 2SC2785-HFE		R6013	1-216-017-91	METAL GLAZE 47	5% 1/10W
Q6200	8-729-144-85	TRANSISTOR 2SK1133		R6014	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6201	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R6015	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6300	8-729-162-13	TRANSISTOR 2SC1621-B3		R6021	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6301	8-729-027-52	TRANSISTOR DTC124EKA-T146		R6022	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q6302	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R6023	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6400	8-729-927-09	TRANSISTOR IRF9630		R6024	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q6401	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R6027	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6402	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR		R6028	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6403	8-729-144-85	TRANSISTOR 2SK1133		R6029	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6404	8-729-821-07	TRANSISTOR 2SC3997CA		R6030	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6405	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR		R6031	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6406	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R6032	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6407	8-729-820-73	TRANSISTOR 2SC3746		R6033	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6408	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR		R6034	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6410	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R6035	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q6411	8-729-027-52	TRANSISTOR DTC124EKA-T146		R6036	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q6412	8-729-027-31	TRANSISTOR DTA124EKA-T146		R6037	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q6413	8-729-027-96	TRANSISTOR IRLI530G		R6038	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q6414	8-729-027-31	TRANSISTOR DTA124EKA-T146		R6039	1-216-295-91	CONDUCTOR, CHIP	
Q6415	8-729-027-52	TRANSISTOR DTC124EKA-T146		R6040	1-216-295-91	CONDUCTOR, CHIP	
Q6416	8-729-027-52	TRANSISTOR DTC124EKA-T146		R6041	1-216-295-91	CONDUCTOR, CHIP	
Q6417	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR		R6042	1-216-295-91	CONDUCTOR, CHIP	
Q6418	8-729-119-78	TRANSISTOR 2SC2785-HFE		R6045	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6419	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R6046	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6420	8-729-027-31	TRANSISTOR DTA124EKA-T146		R6047	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6421	8-729-027-52	TRANSISTOR DTC124EKA-T146		R6048	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q6500	8-729-140-50	TRANSISTOR 2SC3209LK		R6049	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6700	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)		R6050	1-216-295-91	CONDUCTOR, CHIP	
Q6702	8-729-027-31	TRANSISTOR DTA124EKA-T146		R6051	1-216-295-91	CONDUCTOR, CHIP	
Q6708	8-729-027-52	TRANSISTOR DTC124EKA-T146		R6052	1-216-295-91	CONDUCTOR, CHIP	
Q6709	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R6053	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6710	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R6100	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q6711	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R6101	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q6712	8-729-140-96	TRANSISTOR 2SD774-34		R6102	1-216-295-91	CONDUCTOR, CHIP	
Q6713	8-729-027-71	TRANSISTOR 2SC4913		R6103	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q6715	8-729-027-71	TRANSISTOR 2SC4913		R6104	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q6716	8-729-027-52	TRANSISTOR DTC124EKA-T146		R6105	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q6717	8-729-027-52	TRANSISTOR DTC124EKA-T146		R6106	1-216-049-91	METAL GLAZE 1K	5% 1/10W
				R6107	1-216-049-91	METAL GLAZE 1K	5% 1/10W
				R6108	1-216-049-91	METAL GLAZE 1K	5% 1/10W
				R6109	1-216-049-91	METAL GLAZE 1K	5% 1/10W
				R6110	1-216-049-91	METAL GLAZE 1K	5% 1/10W
				R6111	1-216-025-91	METAL GLAZE 100	5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R6112	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6211	1-208-814-11	METAL CHIP 22K	0.50%1/10W
R6113	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6212	1-216-657-11	METAL CHIP 1.8K	0.50%1/10W
R6114	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R6213	1-216-639-11	METAL CHIP 330	0.50%1/10W
R6116	1-216-295-91	CONDUCTOR, CHIP		R6214	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R6117	1-216-025-91	METAL GLAZE 100	5% 1/10W				
R6119	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6215	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6120	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6216	1-208-814-11	METAL CHIP 22K	0.50%1/10W
R6124	1-216-035-00	METAL GLAZE 270	5% 1/10W	R6217	1-216-685-11	METAL CHIP 27K	0.50%1/10W
R6125	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6218	1-216-694-11	METAL CHIP 62K	0.50%1/10W
R6128	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6219	1-208-806-11	METAL CHIP 10K	0.50%1/10W
R6129	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6220	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6130	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6221	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W
R6134	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6222	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R6135	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6223	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6136	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6224	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R6137	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6225	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6138	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6226	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6139	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6228	1-208-814-11	METAL CHIP 22K	0.50%1/10W
R6141	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W	R6229	1-208-814-11	METAL CHIP 22K	0.50%1/10W
R6142	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6230	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6143	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6231	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R6144	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6232	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6145	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6233	1-216-093-00	METAL GLAZE 68K	5% 1/10W
R6146	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6234	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R6147	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6235	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R6148	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6305	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R6149	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6306	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6150	1-216-035-00	METAL GLAZE 270	5% 1/10W	R6307	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R6151	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6308	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R6152	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6309	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R6153	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6310	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6154	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6311	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6155	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6312	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R6156	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6313	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6157	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6314	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6158	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6316	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6159	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6317	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R6160	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6318	1-216-025-91	METAL GLAZE 100	5% 1/10W
R6161	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6319	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6162	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6320	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6163	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6321	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R6164	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R6322	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6165	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R6323	1-216-025-91	METAL GLAZE 100	5% 1/10W
R6166	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6324	1-216-659-11	METAL CHIP 2.2K	0.50%1/10W
R6167	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6325	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6200	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R6326	1-216-295-91	CONDUCTOR, CHIP	
R6201	1-208-814-11	METAL CHIP 22K	0.50%1/10W	R6328	1-216-671-11	METAL CHIP 6.8K	0.50%1/10W
R6202	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R6329	1-216-025-91	METAL GLAZE 100	5% 1/10W
R6203	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6330	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R6204	1-215-378-00	METAL 16	1% 1/4W	R6331	1-216-025-91	METAL GLAZE 100	5% 1/10W
R6205	1-208-824-11	METAL CHIP 56K	0.50%1/10W	R6332	1-216-025-91	METAL GLAZE 100	5% 1/10W
R6206	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6333	1-216-025-91	METAL GLAZE 100	5% 1/10W
R6207	1-208-806-11	METAL CHIP 10K	0.50%1/10W	R6334	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R6208	1-208-814-11	METAL CHIP 22K	0.50%1/10W	R6335	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R6209	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6336	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R6210	1-216-655-11	METAL CHIP 1.5K	0.50%1/10W	R6337	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
				R6338	1-216-077-00	METAL GLAZE 15K	5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R6340	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R6458	1-249-437-11	CARBON 47K	5% 1/4W
R6341	1-218-772-11	METAL CHIP 680K	0.50%1/10W	R6459	1-249-437-11	CARBON 47K	5% 1/4W
R6342	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W				
R6349	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W	R6460	1-249-437-11	CARBON 47K	5% 1/4W
R6350	1-216-659-11	METAL CHIP 2.2K	0.50%1/10W	R6461	1-249-437-11	CARBON 47K	5% 1/4W
R6351	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6462	1-249-437-11	CARBON 47K	5% 1/4W
R6400	1-249-413-11	CARBON 470	5% 1/4W F	R6463	1-216-001-00	METAL GLAZE 10	5% 1/10W
R6401	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R6464	1-216-677-11	METAL CHIP 12K	0.50%1/10W
				R6465	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6402	1-216-017-91	METAL GLAZE 47	5% 1/10W	R6466	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6403	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6467	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6404	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R6468	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R6405	1-260-311-11	CARBON 39	5% 1/2W	R6469	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6406	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6407	1-249-401-11	CARBON 47	5% 1/4W F	R6470	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6408	1-215-861-00	METAL OXIDE 47	5% 1W F	R6471	1-247-807-31	CARBON 100	5% 1/4W
R6409	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R6472	1-260-313-51	CARBON 56	5% 1/2W
R6410	1-249-429-11	CARBON 10K	5% 1/4W F	R6473	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6411	1-214-840-00	METAL 100	1% 1/2W	R6474	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6412	1-214-840-00	METAL 100	1% 1/2W	R6475	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6413	1-214-840-00	METAL 100	1% 1/2W	R6476	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6415	1-208-812-11	METAL CHIP 18K	0.50%1/10W	R6477	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6416	1-216-386-11	METAL OXIDE 0.56	5% 3W F	R6478	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6417	1-219-677-11	METAL 1.8	5% 10W	R6479	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6418	1-216-431-11	METAL OXIDE 560	5% 1W F	R6480	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6419	1-216-041-00	METAL GLAZE 470	5% 1/10W	R6481	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6420	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R6482	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6421	1-215-860-11	METAL OXIDE 33	5% 1W F	R6483	1-208-854-11	METAL CHIP 1M	0.50%1/10W
R6422	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R6484	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6423	1-216-025-91	METAL GLAZE 100	5% 1/10W	R6485	1-247-807-31	CARBON 100	5% 1/4W
R6424	1-211-796-11	FUSIBLE 1	5% 1/2W F	R6486	1-247-807-31	CARBON 100	5% 1/4W
R6426	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R6500	1-260-288-11	CARBON 0.47	5% 1/2W
R6432	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R6501	1-216-673-11	METAL CHIP 8.2K	0.50%1/10W
R6433	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6502	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6434	1-208-814-11	METAL CHIP 22K	0.50%1/10W	R6503	1-249-429-11	CARBON 10K	5% 1/4W
R6435	1-208-814-11	METAL CHIP 22K	0.50%1/10W	R6504	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R6436	1-208-814-11	METAL CHIP 22K	0.50%1/10W	R6505	1-216-393-00	METAL OXIDE 2.2	5% 3W F
R6437	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6506	1-216-393-00	METAL OXIDE 2.2	5% 3W F
R6438	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6507	1-260-288-11	CARBON 0.47	5% 1/2W
R6439	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6508	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R6440	1-247-807-31	CARBON 100	5% 1/4W	R6510	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R6441	1-208-806-11	METAL CHIP 10K	0.50%1/10W	R6511	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R6442	1-208-814-11	METAL CHIP 22K	0.50%1/10W	R6512	1-208-806-11	METAL CHIP 10K	0.50%1/10W
R6443	1-208-814-11	METAL CHIP 22K	0.50%1/10W	R6513	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6444	1-208-814-11	METAL CHIP 22K	0.50%1/10W	R6515	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R6445	1-216-295-91	CONDUCTOR, CHIP		R6516	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R6446	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R6517	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6447	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R6518	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6448	1-216-017-91	METAL GLAZE 47	5% 1/10W	R6519	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6449	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R6600	1-260-292-11	CARBON 1	5% 1/2W
R6450	1-215-863-11	METAL OXIDE 100	5% 1W F	R6601	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6451	1-208-822-11	METAL CHIP 47K	0.50%1/10W	R6602	1-208-822-11	METAL CHIP 47K	0.50%1/10W
R6452	1-249-401-11	CARBON 47	5% 1/4W F	R6603	1-260-292-11	CARBON 1	5% 1/2W
R6453	1-260-313-51	CARBON 56	5% 1/2W	R6604	1-249-429-11	CARBON 10K	5% 1/4W
R6454	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6605	1-208-806-11	METAL CHIP 10K	0.50%1/10W
R6455	1-208-824-11	METAL CHIP 56K	0.50%1/10W	R6606	1-208-806-11	METAL CHIP 10K	0.50%1/10W
R6457	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R6607	1-249-383-11	CARBON 1.5	5% 1/4W F
				R6608	1-216-073-00	METAL GLAZE 10K	5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R6609	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6774	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6610	1-215-866-11	METAL OXIDE 330	5% 1W F	R6775	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R6611	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6801	1-249-383-11	CARBON 1.5	5% 1/4W F
R6612	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W	R6802	1-249-383-11	CARBON 1.5	5% 1/4W F
R6613	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R6803	1-249-421-11	CARBON 2.2K	5% 1/4W
R6614	1-249-413-11	CARBON 470	5% 1/4W F				
R6615	1-214-798-21	METAL 1.8	1% 1/2W	R6806	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6616	1-214-798-21	METAL 1.8	1% 1/2W	R6807	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R6627	1-216-647-11	METAL CHIP 680	0.50%1/10W	R6808	1-216-079-00	METAL GLAZE 18K	5% 1/10W
R6700	1-219-510-11	RESISTOR(SURGE RESISTANT) 470K		R6809	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R6701	1-216-687-11	METAL CHIP 33K	0.50%1/10W	R6810	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R6702	1-219-510-11	RESISTOR(SURGE RESISTANT) 470K					
R6703	1-219-510-11	RESISTOR(SURGE RESISTANT) 470K		R6811	1-249-385-11	CARBON 2.2	5% 1/4W
R6704	1-219-720-11	METAL 10M	5% 1W	R6812	1-249-383-11	CARBON 1.5	5% 1/4W F
R6705	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R6813	1-216-093-00	METAL GLAZE 68K	5% 1/10W
R6706	1-216-105-91	METAL GLAZE 220K	5% 1/10W	R6814	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R6707	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R6815	1-216-473-11	METAL OXIDE 56	5% 3W F
R6708	1-208-822-11	METAL CHIP 47K	0.50%1/10W				
R6709	1-218-758-11	METAL CHIP 180K	0.50%1/10W	R6816	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R6710	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6817	1-249-385-11	CARBON 2.2	5% 1/4W
R6711	1-219-746-11	RESISTOR (SURGE RESISTANT) 1K		R6818	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R6715	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R6819	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R6722	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R6820	1-249-383-11	CARBON 1.5	5% 1/4W F
R6723	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6724	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R6821	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R6731	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R6822	1-216-450-00	METAL OXIDE 82	5% 2W F
R6738	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R6901	1-208-806-11	METAL CHIP 10K	0.50%1/10W
R6739	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R6902	1-208-854-11	METAL CHIP 1M	0.50%1/10W
R6740	1-216-089-91	METAL GLAZE 47K	5% 1/10W				
R6741	1-216-025-91	METAL GLAZE 100	5% 1/10W				
R6742	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6743	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6744	1-216-049-91	METAL GLAZE 1K	5% 1/10W				
R6745	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6746	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6747	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W				
R6748	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
R6749	1-216-089-91	METAL GLAZE 47K	5% 1/10W				
R6750	1-216-097-91	METAL GLAZE 100K	5% 1/10W				
R6751	1-216-113-00	METAL GLAZE 470K	5% 1/10W				
R6755	1-216-105-91	METAL GLAZE 220K	5% 1/10W				
R6756	1-219-746-11	RESISTOR (SURGE RESISTANT) 1K					
R6757	1-218-764-11	METAL CHIP 330K	0.50%1/10W				
R6758	1-218-754-11	METAL CHIP 120K	0.50%1/10W				
R6759	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6760	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6761	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W				
R6762	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6763	1-216-089-91	METAL GLAZE 47K	5% 1/10W				
R6764	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6767	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6768	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R6769	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6770	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W				
R6771	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R6773	1-216-097-91	METAL GLAZE 100K	5% 1/10W				

* 8-933-215-00 AC SW BOARD (J BOARD, COMPLETE)



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>					
	CN4001	1-691-960-11 PIN, CONNECTOR (PC BOARD) 3P		D5201	8-719-404-49	DIODE MA111	
				D5202	8-719-404-49	DIODE MA111	
				D5302	8-719-404-49	DIODE MA111	
				D5303	8-719-404-49	DIODE MA111	
				D5304	8-719-404-49	DIODE MA111	
		<SWITCH>		D5305	8-719-404-49	DIODE MA111	
	S4001	1-571-433-21 SWITCH, PUSH (AC POWER)					
						<IC>	
		*****		IC5001	1-473-975-11	SENSOR UNIT, MAGNETIC COMPASS	
		*8-933-214-00 LCC MCB (L BOARD, COMPLETE)		IC5101	8-759-822-38	IC LA6510	
		*****		IC5201	8-759-803-42	IC LA6500-FA	
				IC5301	8-759-822-38	IC LA6510	
		<CAPACITOR>				<COIL>	
	C5001	1-126-022-11 ELECT 47MF 20% 25V		L5001	1-412-537-31	INDUCTOR 100UH	
	C5002	1-126-022-11 ELECT 47MF 20% 25V					
	C5008	1-126-177-11 ELECT 100MF 20% 10V				<RESISTOR>	
	C5009	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5001	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
	C5101	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5002	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
	C5102	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5004	1-216-295-91	CONDUCTOR, CHIP	
	C5103	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5005	1-216-295-91	CONDUCTOR, CHIP	
	C5105	1-104-664-11 ELECT 47MF 20% 25V		R5006	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
	C5106	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5101	1-249-383-11	CARBON 1.5 5% 1/4W F	
	C5107	1-137-399-11 FILM 0.1MF 5% 50V		R5102	1-249-383-11	CARBON 1.5 5% 1/4W F	
	C5108	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5103	1-220-261-11	METAL GLAZE 470 5% 1/4W	
	C5110	1-104-664-11 ELECT 47MF 20% 25V		R5105	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
	C5111	1-137-399-11 FILM 0.1MF 5% 50V		R5106	1-216-695-11	METAL CHIP 68K 0.50% 1/10W	
	C5201	1-126-022-11 ELECT 47MF 20% 25V		R5107	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
	C5202	1-126-022-11 ELECT 47MF 20% 25V		R5110	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
	C5203	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5111	1-220-230-11	METAL GLAZE 2.2 10% 1/4W	
	C5204	1-137-399-11 FILM 0.1MF 5% 50V		R5112	1-249-383-11	CARBON 1.5 5% 1/4W F	
	C5205	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5113	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	
	C5301	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5114	1-249-441-11	CARBON 100K 5% 1/4W	
	C5303	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5115	1-215-885-00	METAL OXIDE 68 5% 2W F	
	C5305	1-104-664-11 ELECT 47MF 20% 25V		R5116	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
	C5306	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5117	1-220-230-11	METAL GLAZE 2.2 10% 1/4W	
	C5307	1-137-399-11 FILM 0.1MF 5% 50V		R5119	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	
	C5308	1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V		R5120	1-249-383-11	CARBON 1.5 5% 1/4W F	
	C5310	1-104-664-11 ELECT 47MF 20% 25V		R5121	1-249-441-11	CARBON 100K 5% 1/4W	
	C5311	1-137-399-11 FILM 0.1MF 5% 50V		R5122	1-215-885-00	METAL OXIDE 68 5% 2W F	
				R5201	1-249-383-11	CARBON 1.5 5% 1/4W F	
				R5202	1-249-383-11	CARBON 1.5 5% 1/4W F	
		<CONNECTOR>		R5203	1-249-383-11	CARBON 1.5 5% 1/4W F	
	CN5001	* 1-564-516-11 PLUG, CONNECTOR 13P		R5204	1-249-441-11	CARBON 100K 5% 1/4W	
	CN5002	* 1-564-513-11 PLUG, CONNECTOR 10P		R5205	1-208-814-11	METAL CHIP 22K 0.50% 1/10W	
	CN5005	* 1-564-506-11 PLUG, CONNECTOR 3P		R5206	1-216-449-11	METAL OXIDE 56 5% 2W F	
				R5207	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
				R5301	1-249-383-11	CARBON 1.5 5% 1/4W F	
		<DIODE>		R5302	1-249-383-11	CARBON 1.5 5% 1/4W F	
	D5101	8-719-976-96 DIODE DTZ4.7C		R5310	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
	D5102	8-719-404-49 DIODE MA111		R5311	1-220-230-11	METAL GLAZE 2.2 10% 1/4W	
	D5103	8-719-404-49 DIODE MA111		R5312	1-249-383-11	CARBON 1.5 5% 1/4W F	
	D5104	8-719-404-49 DIODE MA111		R5313	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	
	D5105	8-719-404-49 DIODE MA111					



Les composants identifiés par un tramé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R5314	1-249-441-11	CARBON 100K	5% 1/4W
R5315	1-215-885-71	METAL OXIDE 68	5% 1W F
R5316	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R5317	1-220-230-11	METAL GLAZE 2.2	10% 1/4W
R5319	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R5320	1-249-383-11	CARBON 1.5	5% 1/4W F
R5321	1-249-441-11	CARBON 100K	5% 1/4W
R5322	1-215-885-71	METAL OXIDE 68	5% 1W F

MISCELLANEOUS

Δ 1-251-382-12 INLET, AC 3P(WITH NOISE FILTE)

1-415-968-11 COIL, LANDING CORRECTION (NS)

1-415-969-11 COIL, LANDING CORRECTION

Δ 1-415-970-11 COIL, DEGAUSS

1-573-983-31 CONNECTOR(D SUB)(CONVERTER)15P

Δ 1-765-718-11 CORD SET, POWER (10A/125V) (U/C)

Δ 1-765-717-11 CORD SET, POWER (10A/250V) (AEP)

1-774-648-21 ADAPTOR, CONVERSION

1-776-210-11 CABLE ASSY

(15P DSUB X2 CONNECTOR)

* 1-777-729-11 CABLE, COAXIAL (R)

* 1-777-729-21 CABLE, COAXIAL (G)

* 1-777-729-31 CABLE, COAXIAL (B)

Δ 8-451-481-11 DEFLECTION YOKE (Y24FIK-M)

Δ 8-453-013-11 NECK ASSY, PICTURE TUBE (NA298-M)

V901 Δ 8-733-002-05 PICTURE TUBE (24FIF)

Δ 8-733-002-80 ITC ASSY (24FIF-R1)